RADIO DOINGS

THE RED BOOK OF RADIO

COPYRIGHTED TIME TABLES OF THE LEADING BROADCAST STATIONS · · DETAILED DAILY PROGRAMS · · · · LATEST RADIO NEWS

5¢ WEEKLY

The Radio Authority of the Pacific Coast

Meyler, Mrs Jas J 5-29-27
2713 Sweetbriar St

THIS WEEK

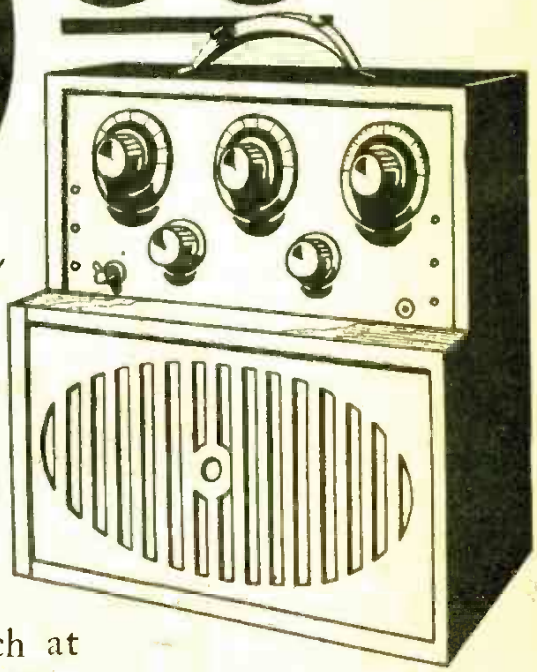
Does Radio Lack Humor?

Vol. IX AUGUST 15-21, 1926 No. 7

WESTPORT RADIO

$89.50

COMPLETE LESS "A" BATTERY



Equally Adaptable for Home or Camp

WESTPORT is just as much at home in an attractively furnished living room as it is in a camp, miles from civilization. The satin finish of the American Walnut cabinet harmonizes with the other home furnishings. The sturdy construction will stand up under rough usage.

Compare the tone, volume, selectivity and range of this five-tube set with other portables selling at a much higher price. Hear it at your "Western Auto" store today.

Set may be had with small tubes and dry A, B and C Batteries at the same low price —$89:50.

To use with Car Storage Battery simply plug into dash light socket.

-More than 125 Stores in the West-

Western Auto Supply Co.

Main Store -1100 South Grand Ave-
LOS ANGELES

Radio Doings

LOS ANGELES
527-29 Van Nuys Bldg.
TUcker 8468

Trade Mark Reg. U. S. Pat. Off.

SAN FRANCISCO
406 New Call Bldg.
Douglas 1388

"The Red Book of Radio"

HUBERT C. CHARLES
General Manager

H. C. CHARLES, Editor
N. E. BROWN, Technical Editor
MAJ. LAWRENCE MOTT, Signal Corps, O.R.C., Associate Editor

FRED L. HALL, INC.,
San Francisco Representative
507 Montgomery St.
J. W. HASTIE,
Eastern Representative

New York Office, 155 E. 42nd St., New York City

(Entered as second-class matter, Nov. 25, 1922, Los Angeles, Cal., Post Office, under Act of March 3, 1897.)

Copyright, 1926, by Horwood Publishing Co.

Issued Weekly. Five Cents a Copy. Two Dollars a Year. Canada and Foreign Countries, $2.50 per Year.

Vol. IX Los Angeles AUGUST 14, 1926 San Francisco . No. 7

THIS WEEK'S FEATURES

EDITORIAL COMMENT
Broadcasters for Fair Play

"KGO," OAKLAND, CALIFORNIA (Illustrated)
"Behind the Scenes" of the popular Pacific Coast Station

"MUSICAL GOLD FISHES"
A resident of Florida succeeds in getting music from her gold fish bowl

"BROADCASTING AS USUAL"
Very little, if any, difference noted in the broadcast situation. Also list of new licenses granted during the past week

"KOA HEARD IN ITALY"
A long distance achievement by the mile-high station of the General Electric Co.

"ARMSTRONG PATENT CANCELLED'
Decision of Judge J. J. Thompson cancels patent of Edwin H. Armstrong on the feed-back regenerative circuit"

STATIONS REQUESTING NEW WAVE LENGTHS

"RADIO LACKS HUMOR"
Will Rogers, the comedian, gives his opinion on this subject

LISTENERS-IN CORRESPONDENCE

"WHY OF RADIO" (Fifty-Ninth Installment)

QUESTION AND ANSWER DEPARTMENT

THE SARGENT INFRADYNE (Diagram and Description)
N. E. Brown, A. I. E. E., A. S. M. E. and I. R. E.

ONLY $2.00 A YEAR

Have RADIO DOINGS mailed to your home every week. Fill out blank below. Either mail to us, or your dealer will be glad to take care of it for you Please indicate whether NEW or RENEWAL.

HORWOOD PUBLISHING CO., 527 Van Nuys Bldg., Los Angeles, California
406 New Call Building, San Francisco, California.

Gentlemen:
I enclose $2.00, for which send me RADIO DOINGS for one year.
NEW—RENEWAL.

Name.....

Address.....

Just Received Two Carloads of

Radio Console Cabinets

No. 649

Radio Console Cabinet made of genuine mahogany plywood. Built-in loud speaker, Utah Unit. Battery space. Accommodates panel 7x18.

Price $45.00

Special Offering

All the beauty of early Colonial cabinet making. High Boy Model, ideal for every home of distinction. The two-tone walnut harmonizes with any interior. Height 45 inches — Width 24 inches — Depth 13½ inches. Built-in speaker, Utah Unit.

Price $60.00

No. 645

C. W. SMITH CO.

"The Home of Utah Speakers'"

1125 Wall St. Los Angeles WEstmore 3291

THE ADVANCED HANDY TRICKLE-BOOSTER CHARGER

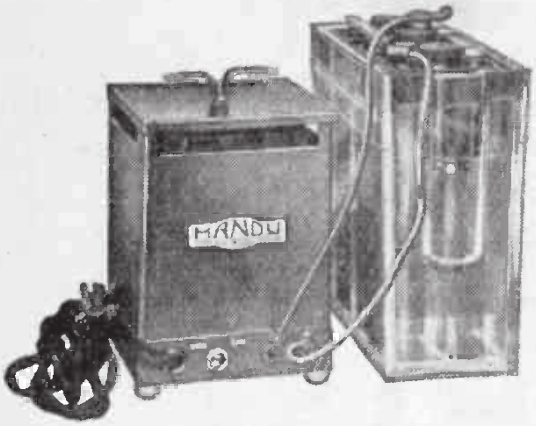
Converts your present battery into an up-to-date "A" Power Unit.

For Either 6 or 4-Volt Storage Batteries

Absolutely Quiet — Uses the long-life, 2 ampere bulb.

Great Flexibility — Long Life —Maximum Efficiency.

The Solution to the Radio "A" Power Problem



The Handy Trickle-Booster Charger with its "slow and fast" rate feature, gives the radio fan two chargers in one compact unit at a price lower than the standard battery charger. Should be permanently connected.

Ideal for console and built-in battery cabinets.

110 Volts, 50 or 60 Cycle — Complete — $15.00

Ask Your Dealer for a Demonstration

C. C. LAWTON CO.

1125 Wall Street Los Angeles WEstmore 3291

Silver-Marshall

The New Four-Tube, Single Control, All Wave Receiver—Kit $59.25

Selectivity—Volume—Tone Quality

THE SILVER SIX

Using Interchangeable Coils for All Wave Bands
Kit $53.00

Also Silver Marshall's Latest Equipment now in Stock.
Ask your dealer to show you the

S. M. "PLUG IN B" ELIMINATOR

Will operate any set and handle all power tubes—**$39.50**

THE 220 AND 221 AUDIO TRANSFORMERS

These are the last word in Audio Amplification. Designed for all types of tubes, old type and new. Put two 220 and one 221 in your set. Priced at **$6.00** each.

The 275 Short Wave Choke Coil, 60c

DEALERS:

Park your car next door at our expense.

RADIO SUPPLY CO.

Opening Evenings Till 9 o'Clock

920 South Broadway—VAndike 6063 **Los Angeles**

YOU'LL FIND IT HERE

in the largest "parts" stock on the Coast

—a few of our Representative lines:

ALL AMERICAN Constant "B" Units and Filtrolas
AMSCO Allocating Condensers, Single and Siamese
BENJAMIN Sockets, Switches and Brackets
DUBILIER Fixed Condensers, Ducons, Etc.
WESTON Meters—All Readings and Types
BREMER TULLY Counterphase Kits and Parts
YAXLEY Parts—Rheostats, Switches, Jacks, Etc.
THORDARSON Transformers, Chokes, Etc.
ACME Cone Speakers, Raytheon Kits and Parts
SANGAMO Bakelite Fixed Condensers—All Sizes
NATIONAL CO.—Browning-Drake Kits and Type B Dials
DAVEN RESISTANCE Coupled Amplifiers, Tubes and Leaks
AERO SHORT-WAVE Coils, Oscillators and TRF Coils
FORMICA Bakelite Panels and Tubing
CROWE Metal Panels and Shields for Bremer Tully
MARCO TRF Kits, Switches, Plugs, Etc.
MADISON MOORE Transformers, Couplers, Etc.
CARBORUNDUM Stabilizer Units and Detectors
FRANCO BATTERIES, "A," "B" and "C"
SILVER MARSHALL "S-C" and SIX Kits and All Parts
PREMIER Jacks and Hedgehog Transformers
AMERTRAN De Luxe Transformers and B Units
HANDY Chargers—Ultra, Twin Bulb, Simultaneous & Simplex
TOBE DEUTSCHMANN Hi-Test Condensers, Loops, Etc.
PACENT DIALS, Isolantite UX Sockets, Etc.
BRANDES Speakers—All Types and Phones
CRL Variable High Resistances and Modulator Plug
POLYMET Claroplugs and By-Pass Condensers

A VERY COMPLETE LINE OF SHORT-WAVE TRANSMITTING AND RECEIVING PARTS IN STOCK ALWAYS

DEALERS:
Park Your Car Next Door at Our Expense

Radio Supply Co.

920 So. Broadway VA. 6063 LOS ANGELES
OPEN EVENINGS TILL 9 O'CLOCK
Send for Our New Catalogue—Just Out

THE NEW INFRADYNE

IS HERE

This 10-tube set is the talk of the radio world. Tunes very sharp, very good on distance—very quiet and absolutely no harmonics. This means that you get the station at only one place on your dials.

Complete instructions and blue prints only $1.00. We carry the complete kits as specified by Gerald M. Best. Write us for particulars.

Silver-Marshall

7-TUBE SUPER HETERODYNE

The finest thing in a Radio set today—regardless of price or make—for Tone, Ease of Operation, Selectivity, Distance—this set is incomparable. Complete kit now $59.50

RADIO CABINETS AND TABLES

A large assortment of different styles and finishes to fit any home. Prices very reasonable. We deliver.

RADIO TUBES

Unconditionally Guaranteed

201-A TYPE, $1.00—199 TYPE, $1.25

All These Tubes to Fit Either the Old or New Style Sockets

We Are Crosley Authorized Dealers

A complete line of these popular sets and speakers in stock at all times. Terms if desired.

AMERICAN RADIO CO.

108 East 8TH St. LOS ANGELES TUCKER 6028 A FAIR SQUARE DEAL TO ALL CALIFORNIA.

Editorial Comment

Broadcasters for Fair Play

ONE of the greatest romances of American industry is being written by the broadcasters of the country. In response to the appeal which was made to all broadcasting stations on July 19th, to sign a Certificate of Promise, assuring The National Association of Broadcasters, that the station would continue to operate under the assignments made by the Department of Commerce, prior to the Attorney General's opinion, more than 150 stations have returned the signed agreement already, and each mail brings more. Many of them are doing so at the sacrifice of their individual interests, which are born of deep convictions.

So fine has been the immediate response to this call, that so far as existing broadcasters are concerned, we feel assured that the situation is well in hand, and no one needs to fear any kind of chaos due to the operations of those now in the field. However, attention should be directed to the long list of applicants who desire to get into the broadcasting business.

It costs from $50,000 to $250,000 to build, equip and place a broadcasting station in operation. There are already 536 stations operating on the 89 available wave length. Simple arithmetic shows how these stations must be dividing time to avoid interference. Obviously, it is impossible to put 600 more stations on the available wave lengths and justify even the minimum investment. It becomes necessary for someone to say who may and who may not broadcast, and there is no doubt that as soon as Congress convenes in December, adequate legislation will be provided, placing this power in the hands of either the Secretary of Commerce or a separate radio commission. When this takes place, many will certainly be shut out, and it is logical to believe that those who have pioneered in the art, and who have maintained adequate and improving service, should be given prior consideration.

Some may say that they will take their chances and go ahead with the erection of a station, gambling entirely on what their position may be after the passage of the new law. This would prove to be the wildest kind of speculation, and it is believed that very few, if any, will take the risk.

"KGO" Oakland, California

"Hello, powerhouse! Give us the carrier!". An operator in the control room of KGO speaks these words into a telephone and gives life to the giant broadcaster of the General Electric Company, at Oakland, Calif.

An instant later switches click in the powerhouse and signal lights flash.

Back in the studio before a microphone stands the announcer watching for the green signal light flashed by control room operators, which will tell him that all is ready.

Instantly over the continent and beyond the air is filled with electrical energy radiated from KGO's antenna.

Again the switch is moved. This time to concert, and the concert microphone is now in circuit. The program follows. From three different studios the different numbers of a single program may be broadcast without waiting, so quietly that listeners will not be aware that part of their program is coming through wires laid for several miles under water of the San Francisco Bay. Two of these studios are located on the second floor of the main building in Oakland. The other is in the Hotel St. Francis, San Francisco, ten miles away. At this point let Ray Koernig, assistant engineer in charge of KGO, tell the story:

KGO Studio Building at Night

The green light! The announcer raises his arm. "All quiet, please!" Conversation ceases. Deftly the announcer moves a tiny switch to "announce," bringing the "announcer microphone" right in front of him into the circuit.

Speaking slowly and distinctly, he is heard to say: "Station KGO, General Electric, Oakland, California."

"Three operators are on duty in the KGO control room during programs. The senior operator controls the groupings of the amplifiers, operates the gain

"KGO"—*Continued*

control and monitors the radio output. The second man takes the various meter readings at the beginning of each selection and records them in a log. The third man listens in continuously on a wave-length of 600 meters for distress signals from ships at sea and enters in a log ship and shore stations heard.

"Two operators in the power house are always on duty during a broadcast. The senior operator supervises the operation of the power equipment and sees that the set is tuned to the exact frequency 830 kilocycles before the start of the program. Careful watch is maintained during broadcasts to make sure that frequency is constant. Frequency, constancy and continuity of program output are two vital things about KGO's broadcasting. With a receiver the senior operator listens in. He also watches the voice wave in the oscillograph. By watching the voice wave the percentage of modulation is maintained at the proper point.

"Directly over the power house building is the antenna system. It is the multiple tuned type and is strung between two towers, 150 feet high and 250 feet apart. Beneath the antenna is the counterpoise, consisting of twelve wires parallel to it, fifteen feet off the ground, coverin gan area of 150 by 300 feet.

"Every part of the equipment of KGO is built in duplicate so that should any part break down during a broadcast, a corresponding part may immediately be switched into the circuit.

"Besides the regular programs from the KGO studios, twenty-one remote control connections furnish broadcasting material for the listening public.

"KGO operates normally at 5000 watts, on a wave-length of 361.2 meters on 830 kilocycles."

KNRC's Announcer

We are pleased to publish below the photograph of that popular vocalist, studio manager and announcer, Tom Mitchell, a most necessary and vital part of Station KNRC, Los Angeles, owned and operated by the Kierulff & Ravenscroft Company, Seventeenth and Los Angeles streets. Mr. Mitchell, who has been very appropriately termed "Los Angeles' Premier Baritone," while having been associated with Station KNRC, but a comparatively short time,

TOM MITCHELL

has, through his untiring efforts, pleasing personality and, above all, his high ability, made thi sstation one of the foremost in its class today. "Tom" has had considerable theatrical experience, having been on the Keith and Orpheum circuits for eleven years, was engaged for four consecutive seasons at the New York Winter Garden, and occupied a

(Continued on Page 22)

Broadcasting As Usual

There were 537 active stations on the air on July 29th, as against 528 on July 1st, the Department of Commerce official lists show. This means that ten new stations were licensed and one, the Owl Battery Co., WOWL, at New Orleans, dropped out. To be sure, it is reported that several other changes are contemplated but no official reports are yet in. WCAP, at Washington for example, will close shortly.

A few other changes in wave lengths, power and ownership are recorded by the Radio Section of the Commerce Department, but nothing like the general shake-up anticipated in some quarters has taken place since the decision of the Acting Attorney General was announced. Broadcasting goes forward practically as usual. Doubtless a dozen or two new licenses will be issued during the next month and from thirty to forty other stations will designate new normal wave lengths in their renewed licenses. The list of applicants remains the same—646—as it was nearly a month ago. Little trouble is anticipated unless fifty or more new stations start broadcasting.

New licenses issued during the past week are as follows:

KGBU, Roy R. Thornton, Ketchikan, Alaska, 228.9 meters, 1310 Kcs.

WKBA, The Arrow Battery Co., of Chicago, Ill., 288.3 meters, 1040 Kcs.

WMBI, Moody Bible Institute, Chicago, Ill., 288.3 meters, 1040 Kcs.

WJAF, J. A. Fenberg Radio Co., Ferndale, Mich., 400 meters, 749.6 Kcs.

WJBV, Union Course Laboratories, Woodhave, N. Y., 469.9 meters, 638 Kcs.

KGBS, A. C. Dailey, Seattle, Wash., 209.7 meters, 1430 Kcs.

Four other stations licensed recently bring the total to ten. A temporary license to KRCA, Radio Corp., San Francisco and Los Angeles, to operate on 305 meters, has also been granted.

The following changes in rado broadcasting stations have been announced by the Department of Commerce:

WGHB, Fort Harrison Hotel, 265.5 meters (change of ownership only; formerly licensed in the name of George H. Bowles Developments).

WNAC, Shepard Stores, Boston, Mass.; changed from 280.2 meters to 430.1 meters.

WNAB, Shepard Stores, Boston, Mass.; changed from 250 meters to 280.2 meters.

WRNY, Experimenter Pub. Co., N. Y. C.; changed from 258 meters to 374.8 meters.

WBNY, B. A. Ruchome Corp., N. Y. C.; changed from 209.7 meters to 322.4 meters (formerly licensed to Miss Shirley Katz).

WEW, St. Louis, Univ., St. Louis, Mo.; changed from 247.8 meters to 360 meters.

Heard in Florence, Italy!

This is the newest long-distance achievement of KOA, mile-high General Electric broadcasting station at Denver.

This information was contained in a letter from Liverpool, Eng., written by Mrs. Harry Fugate of Waxahachie, Tex., on June 24.

"We heard KOA the other morning at 3 o'clock, while in Florence," her letter read. "My friends asked many questions about Denver and the Rockies, and I gave them all the information possible."

The DX range of the Rocky Mountain broadcasting station previously extended from New Zealand, on the west, to Birmingham, Eng., on the east, and as far south as Lima, Peru. The most northerly radio report, it was said, comes from a point 160 miles within the Arctic circle.

Armstrong Patent Cancelled

Involving what is said to be the second most valuable basic patent in the history of the radio art and industry, Federal Judge J. J. Thompson, of the Eastern District of Pennsylvania, today handed down a decision cancelling the patent of Edwin H. Armstrong for the widely used "feed-back regenerative circuit," which automatically declares Lee de Forest to be the actual inventor.

This decision is a signal triumph for Dr. de Forest and the DeForest Radio Company and marks the final stage of the bitterly fought series of legal battles as to whether he or Major Armstrong was the actual inventor. The case was submitted early in 1925 by Attorney Samuel E. Darby, Jr. of New York for the De Forest Radio Company in an action for cancellation of the Armstrong patent directed at the Westinghouse Electric and Manufacturing Company to whom the Armstrong rights had been assigned.

"The feed-back regenerative circuit has been aptly termed 'the heart and soul of radio.' Without it broadcasting would be impossible, "Mr. Darby said. "Dr. de Forest's regenerative transmitter with its novel circuit was held to be the original invention of this essential device when in September, 1924, the District of Columbia Court of Appeals reversed the Commissioner of Patents and granted priority of invention to Dr. de Forest over Major Armstrong. Patents were issued to de Forest. Despite this, the Westinghouse Company, through its licensees, continued the manufacture of hundreds of thousands of radio sets using the infringing Armstrong circuit.

"The De Forest Radio Company's suit for cancellation was necessitated by the contention of the Westinghouse interests that the United States Court of Appeals in New York had sustained the Armstrong patent, and the licensed manufacturers under it included the Radio Corporation of America, General Electric Company and nearly a score of other radio manufacturers. It has been estimated that this essential circuit is in use in over one-half of all the radio sets or receivers built and sold in the United States since Dr. de Forest's invention of the three-electrode audion.

"The profits accruing to the De Forest Radio Company from the infringing use of this circuit by the Westinghouse Company and its licensees will be enormous as a result of today's decision," Mr. Darby predicted, "and it will bring to a close litigation that has been fought in various United tSates courts since 1917. In addition, this action of Judge Thompson will automatically release the De Forest Radio Company from any and all liability for infringement which was charged in parallel suits filed to sustain the validity of the Armstrong circuit patent."

Seven remote control stations are being operated in conjunction with KNX, the Evening Express, Los Angeles. This is the largest number that any station boasts in this city.

The panels that are used are located at the Cocoanut Grove, Ambassador Hotel; Edgewater Club of Santa Monica; Westlake park; Leighton's Arcade Cafeteria; First Presbyterian Church of Hollywood; Carthay Circle Theater, and the Hollywood Legion Stadium.

All of these have regular time on the air and a diversity of music is offered.

Henry P. Hayes of Boston, Mass., is the builder of the largest receiving set in the world. It has 14 tubes and cost $750 for the construction.

Radio Lacks Humor

"That radio programs are improving in quality, even the most lugubrious crepe-hanger must admit," opines John Wallace in the Radio Broadcast magazine. "This healthy condition of competition existing where several hundred broadcasters are daily vieing for the listeners' cherished ears has, of necessity, resulted in a considerably higher level of entertainment. Many stations, however are just as bad as they were two, three, or four years ago. But the stations that have progressed have done so by such leaps and bounds that, even though a minority, they have greatly boosted the average rating of broadcast fare.

"Real music is being heard more and more frequently. A fair smattering of the best symphony orchestras are regularly on the air. The roll of opera stars and concert artists who have been heard once or oftener has reached amazing proportions, and sports announcing is another program item that has evinced great progress. Others could be enumerated.

"But tossing aside, for the moment, our horn, and picking up our hammer, we point with tears behind our eyelids, to one type of program that has improved nary a whit. And that is the humorous program.

"In speaking here of humor, we have in mind specifically monologues and wit-and-repartee skits, and do not mean to include humorous songs or humorous musical skits, which get by partly on the strength of the music. The contagion that sweeps a laugh through a vaudevile house is denied the listener-in. Efforts of the radio clown to inject the element of rapport by laughing with his audience, invariably meet with dismal failure. To learn what the humorists themselves had to say about the matter, we were fortunate in obtaining interviews with that prominent comedian, Will Rogers," continues Mr. Wallace.

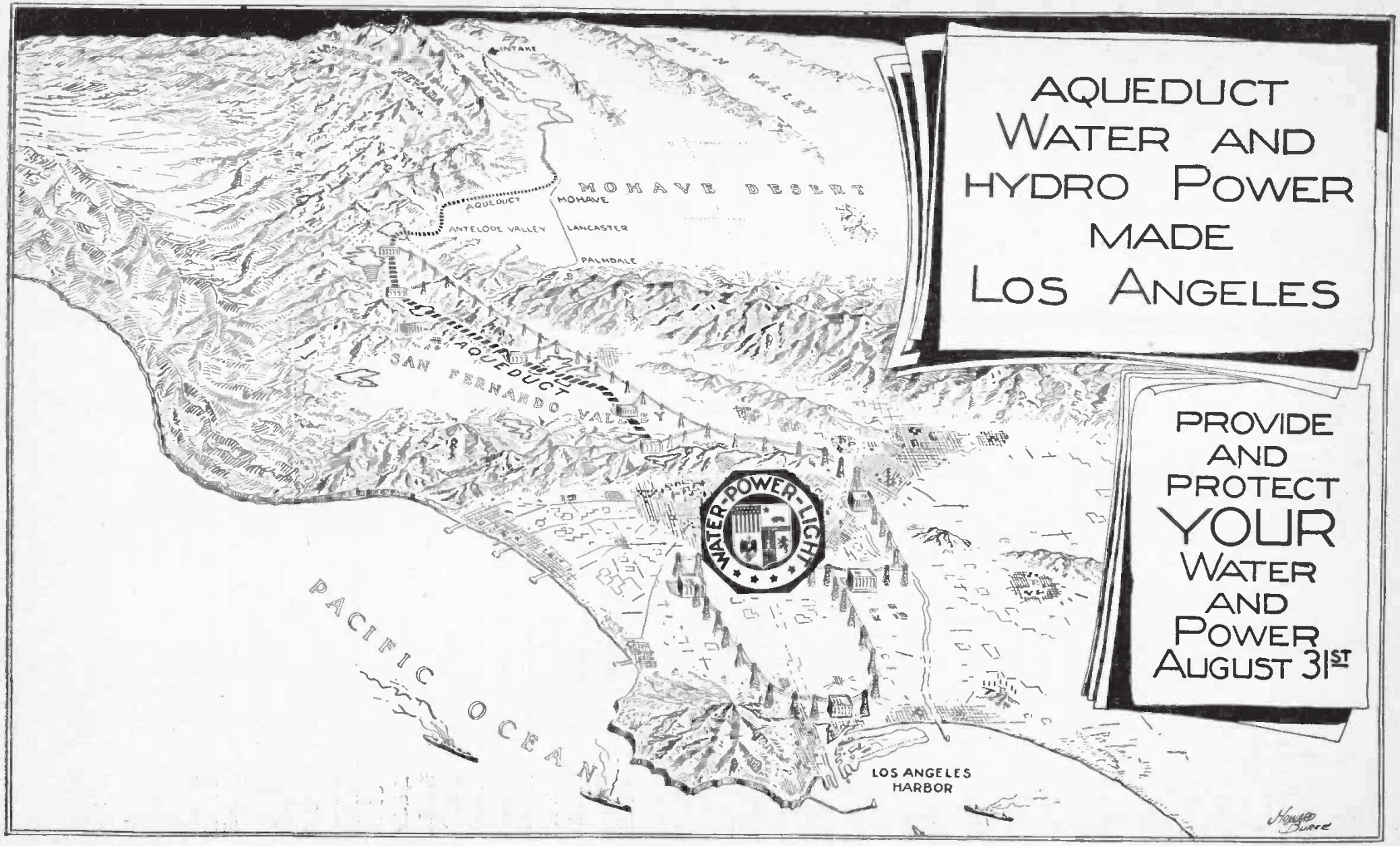
The statement made for Radio Broadcast magazine by Will Rogers is as follows: "Talkin' over radio is like talkin' over the footlights," he says. "When I'm most serious, people think I am tryin' to be funniest. Lots of times, gags I could swear would be a big laugh, fall perfectly flat. You never can tell what is going to strike the public funny. Generally I make up my gags as I go along. Best ones I ever pulled came to me all of a sudden while I was killin' time tryin' to think of something to say.

" 'Swinging a rope is all right,' I remember saying, 'when your neck isn't in it. Out West, where I come from, they won't let me play with this rope. They are afraid I might hurt myself.' Well, the audience started to laugh and forgot to look at the lariat. I was saved. After that, I started to make remarks regularly until the time came when I hardly did anything at all with my lariat.

"Now, when I talk over the radio, I sure don't need a rope. Course, I can't hear whether the folks are laughin' at my gags, but that's a pretty good thing after all. I jest imagine they laugh, whether they do or not, and that way puts some heart in my act. If I was to hear them not laughin', it'd break my heart."

KNX, the Evening Express, claims the distinction now of having had the first boulevard named after its call letters. In the new subdivision known as Glendale Highlands, California, there is now a KNX Boulevard.

The men in charge of this tract are firm believers in radio and give regular programs over KNX every week. The naming of one of the streets is being considered quite a tribute by the station.


AQUEDUCT
WATER AND
HYDRO POWER
MADE
LOS ANGELES
PROVIDE
AND
PROTECT
YOUR
WATER
AND
POWER
AUGUST 31ST
MOHAVE DESERT
AQUEDUCT
MOHAVE
ANTELOPE VALLEY
LANCASTER
PALMDALE
SAN FERNANDO VALLEY
AQUEDUCT
WATER-POWER-LIGHT
PACIFIC OCEAN
LOS ANGELES
HARBOR
HOWARD BURCE

Stations Requesting New Wave Length

			Meters
WNAB	Boston, Mass	Shepard Stores	280.2 to ?
WJAR	Providence, R. I.	Outlet Company	305.9 to 352 or 370
WGBX	Orono, Maine	Univers. of Maine	234.2 to 252
WNBH	New Bedford, Mass.	New Bedford Broadcasting Co	242 to 261 (may not change)
WTAG	Worcester, Mass	Worcester Tel. Pub. Co	268 to 545.1 (change made)
WGBS	New York, N. Y	Gimbel Bros	315.6 to 450
WEAM	Nor. Plainfield, N. J.	Bor. of N. Plainfield	261 to 275 or 300
WRNY	New York, N. Y	Experimenter Pub. Co	258.5 to 322.4
	Philadelphia, Pa	Berachah Church, Inc.	267.7 to ?
WBAL	Baltimore, Md	Con. Gas. Elec. Light and Power Co	246 to ?
WNAT	Philadelphia, Pa	Lennig Bros. Co	250 to 315
WABQ	Haverford, Pa	Haverford College	261 to 296.4
WBT	Charlotte, N. C	Charlotte Ch. of Com.	275.1 to
WCOA	Pensacola, Fla	City of Pensacola	222.1
WABC	Asheville, N. C	Asheville Battery Co	254
WTAW	College Sta., Tex	A. & M. College of Tex	270 to361 or 461
KFYO	Texarkana, Texas	Buchanan-Vaughn Co.	209.7
WSM	Nashville, Tenn	National Life Ins. Co	282.8
WBRC	Birmingham, Ala	Bell Radio Corp	247.8 to ?
WAPI	Auburn, Ala	Alabama Poly. Inst	247.8 to 300 or 375
WRR	Dallas, Texas	City of Dallas	246 to 312.3
	Shreveport, La	W. G. Paterson	261 to 330
KFQB	Ft. Worth, Texas	Searchlight Pub. Co	263 to 508
WCAR	San Antonio, Tex	Southern Radio Corp	263
KFWM	Oakland, Calif	Associated Broadcasts	239.9 to 333
KRE	Berkeley, Calif	Berkeley Daily Gazette	256
KFWC	San Bernardino, Cal.	L. E. Wall	211.1
KFBC	San Diego, Calif	W. K. Azbill	215.7 to 550
KQW	San Jose, Calif	1st Baptist Church	231 to 333
KNRC	Los Angeles, Calif	C. B. Juneau	208.2
KFWB	Hollywood, Calif	Warner Bros. Pictures	252 to 383
KFBU	Laramie, Wyo	Bishop N. S. Thomas	270.1
KFIQ	Yakima, Wash	1st Methodist Church	256.3
KOWW	Walla Walla, Wash	Blue Moun. Radio Assn	256
WIBX	Utica, N. Y	WIBX, Inc	205.4 to 234
WQAN	Scranton, Pa	Scranton Times	250
WDAF	Kansas City, Mo	Kansas City Star	365.6 to above 400
WHB	Kansas City, Mo	Sweeney School Co	365.6 to 412
WOD	Des Moines, Ia	Bankers Life Co	526
KFNF	Shenandoah, Ia	Henry Field Seed Co	263 to 352.7 or 408
KUST	Vermillion, S. D	Univ. of South Dakota	278 to
KTNT	Muscatine, Ia	N. Baker	256 to 361.2 or 348.6
WOWO	Ft. Wayne, Ind	Main Auto Sup. Co	227.1
WBBM	Chicago, Ill	Atlass Investment Co	226
WKBB	Joliet, Ill	Sanders Bros	214.2 to 206.8
	Chicago, Ill	Amer. Bond & Mort. Co	250
KMA	Shenandoah, Ia	May Seed & Nurs. Co	252
KFDY	Brookings, S. D	S. D. State College of A. & M. Arts	273 to 316

WHO CAN HELP?

Santa Barbara, Calif.
1426 Garden St.,
August 7.

Listeners-in Club:

I have a Freshman Masterpiece, and am not getting much distance. I am not a DX fan, because I cannot get the DX stations. I get KFSD, KFI, KPO, KGW, KTCL, CNRV, KFAD, KOB, and other Los Angeles stations. If any of my friends in Radioland have got other stations on a Freshman I wish they would write me. I hope you write me.

Waiting, I remain,
ROBERT HOLMAN.

P. S.: Also tell me the dial the stations are on.

INFORMATION WANTED

East San Gabriel, Calif.,
Augst 9, 1926.

Listeners-In Department:

May I ask when Station KFWC first came on the air, who are they, what is their power and why aren't they in the daily column of Who's Who in the weekly "Doings"?

They are located in San Bernardino, broadcasting from the Pickering Park Ballroom, on about 217 meters every night, from 9 or ten on, so I get from the announcer, but owing to the lack of power or proper facilities or engineering or something, they fade worse in forty-three miles than Walla-Walla, in a thousand. I first heard them Saturday night, June 19th.

May I hear from owners of Silver-Marshal Supers (seven tubes), as to trouble, if any, and bright ideas on power tube additions. Never satisfied with ordinary reception. Am reaching Toronto and Kansas City in June.

L. V. KING.

Friend King:

Station KFWC came on the air regularly about one month ago; it is located at San Bernardino, Calif., and broadcasts nightly from Pickering Park. It is operating on 100 watts and 211 meters. Its schedule of broadcasting hours can be found in our time tables. Communication should be addressed to L. E. Wall, care Station KFWC, San Bernardino, Calif. We will leave the remainder of your inquiry for your fellow club members to think over. *EDITOR.*

NOT SO BAD!

R. 4, Box 285, San Diego, Calif.,
July 31, 1926.

Listeners-in Club:

I have read about a lot of doings by one-tube set owners. I've had my one-tuber about seven months and I've done pretty well, if I do say it myself.

How's this from San Diego: KMMJ, KFCB, KDYL, KFEL, KFWA, WCAR, KFBU, KLZ, KFKX, KSL, KTCL, KDKA, WSAI, KOA, KOB, WJAD, KJR, WOAI, WCCO, WLW, WBAP, KGW, WHO, KYW, WLS, CZS, KMOX, KFH, WENR, KFPY, KFAD, KLDS, KFUR, WGHB, WOC, KFOA, WSBC, WOK, KFVR, WORD, KHQ, CNRV, KFJF, WSMB, KVOO, KWSC, KFAU, WHT, KOWW, CFCF, KOIN, KQP, and 30 stations in California. WGHB and KDKA are rarefied, as most of the other more distant stations are. All Radio.

K. M. TOZER.

P. S.—Although I am not a regular subscriber, I have not missed many copies since October, 1923. This is my first letter to Listeners-in Club, so I would like very much to see it on that page soon. Thank you.

The Why of Radio

By N. E. BROWN, Radio Technician
Institute of Radio Engineers—American Society of Mechanical Engineers; American Institute of Electrical Engineers

EDITOR'S NOTE—This is the fifty-ninth installment of RADIO DOINGS' complete Course in Radio. It began with the issue of July 4th, 1925, and will cover every phase of radio from the basic principles to and including every device and set now in use. This course will be continued from week to week.

The object of either of these changes resulting in carrying a higher grid bias, allowing a great grid swing before its potential becomes positive, for when the swings positive, a grid current flows, and it is not material whether a magnetic change in the core density is the result of ampere turns of the primary or secondary, the net effect will be the same.

Now, other things being equal, the higher the ratio (turn ratio), the higher will be the impedance of the grid winding and the greater will be the effect of this grid current. It is therefore quite evident that a rather low turn ratio should be used as the second transformer. Now you see this argument means that the low turn ratio (unless the design and materials are both unusually good, with consequent increased cost), is the best bet in general. tI is generally accepted that the degree of amplification is quite, if not exactly, proportional to the turn ratio. That a 6-1 transformer will put a higher voltage on the grid of the next tube than a 3-1 transformer, other things being equal, and while this may be true in some cases, it does not follow that it will always be found true.

To one giving a little thought to the matter, it will be clear that given a certain secondary winding (number of turns and relative position with reference to the core) the voltage at the terminals will be proportional to the degree of magnetic change in the core in a given time. We can safely make this assumption and proceed to the next step. Given a certain tube, plate voltage and variation in grid voltage what winding will insure the greatest change in magnetic density in the core above mentioned? That is the problem, and to eliminate all mathematics, we will discuss it from a purely common-sense point of view. In the first place, if we multiply the number of turns by the plate current in mills we will have the milliampereturns, and it is quite clear to all that if the turns are too great, either the resistance of the winding will become so great that little plate voltage will be impressed on the plate of the tube or saturation of the transformer core MAY be too nearly approached, or both. And so if we go too far in having the number of primary turns great we will defeat the purpose of the primary winding entirely and the net results will be nil.

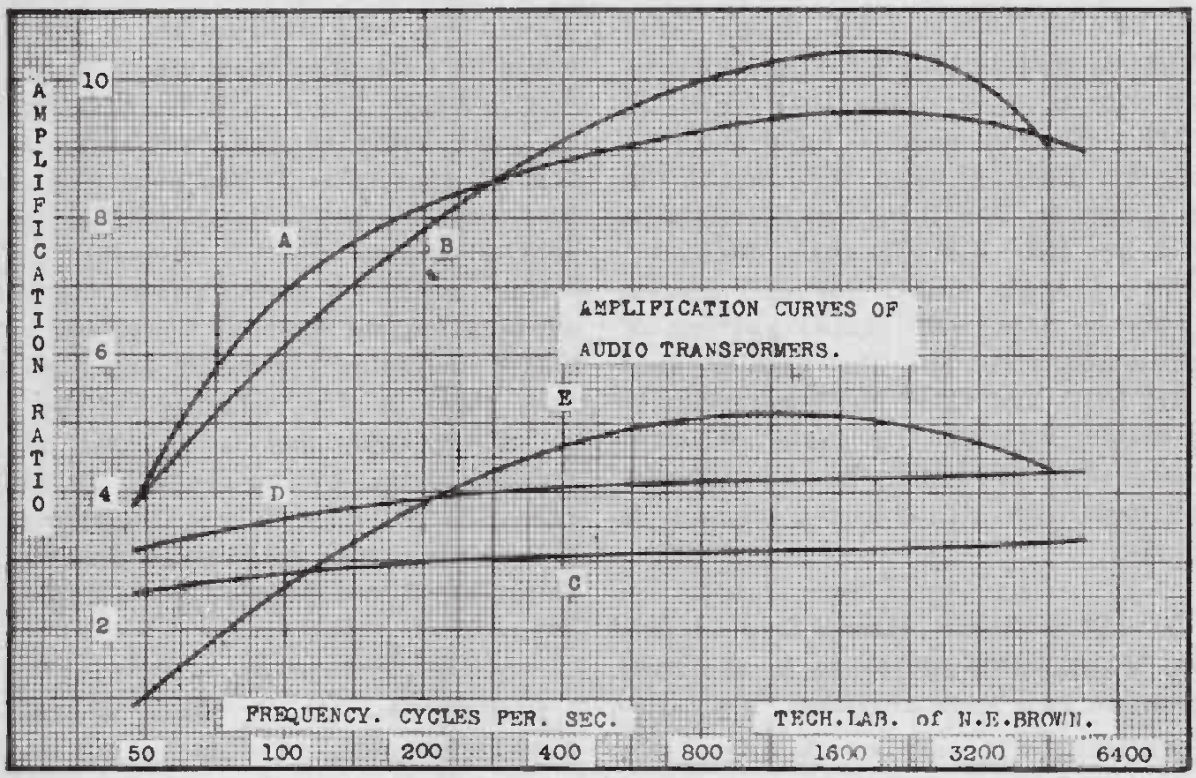
Now let us turn the telescope around and look through from the other end: Suppose we have just one turn; why, of course, anybody knows one turn would have no value, but if both these assumptions are true, and they are, there is some definite number of turns that would with a given set of conditions render the greatest difference of voltage at the terminals on the secondary winding. When the impressed voltage is nearly always the same as can safely be assumed, when dealing with power transformers, getting current from the light and power circuits, the voltage will be quite nearly proportional to the turn ratio when the magnetic density is held within practical working limits, and this same thought has been applied to transformer problems in both audio and radio circuits without taking into account that the in-

The Why of Radio—*Continued*

put or primary potentials applied to the windings ARE NOT constant. Then at these higher frequencies the electrostatic capacities begin to play such an important part and when in connection with inductance produce results that are most unexpected except to those who are by education and experience prepared to anticipate them. It is this electrostatic capacity that is responsible for the undesirable curve forms at the higher frequencies while it is the lack of sufficient primary impedance that causes the loss of the lower tones in so many of the receivers one hears.

There is another caprice of capacity coupling between the primary and secondary winding of audio transformers when under some conditions the primary winding acts like an auto transformer greatly increasing the amplification at the higher frequencies this can somettimes be nearl yall removed by placing a noninductive resistance in the grid circuit in series with the C buttery of the order of from 100,000 to 500,000 ohms.

A great deal can be done b yarranging to make all volume adjustments as near the antenna as possible, which will leave all the audio amplification operative at all times. This will insure the nearest equal load on the detector an daudio amplifier at all times, and such adjustments as have been found to give the best quality will not have to be disturbed. Again, if you will permit me, the quality is not in any one part of the equipment without reference to all of the integral parts. A 100-horsepower motor, a transmission designed for a 20-H.P. drive and a real axle, designed for less, carrying a ten-passenger body on 3-inch tires, would make a combination just about like some of these gotten together with odds and ends of radio equipment. Careful thought and planning, careful selection of transformers, tubes, batteries, speaker and etc., with care in assembling, WILL give results of a high order.



(To Be Continued)

Questions and Answers

By N. E. BROWN, A.I.E.E. and A.S.M.E.
Technical Editor, Radio Doings

QUESTION—H. J. Hanson, Taft, Cal., asks which I prefer, the five-tube radio frequency or the four-tube universal.

ANSWER—It depends upon the individual critter; I have seen a lot of either that were not worth the solder on them, and I have seen a few of each that were whizbangs, in general, I prefer those that are CAREFULLY BUILT and of PROPER PARTS. Don't build either if you must slight the work or use poor ports, or those that NEARLY SUIT. It costs more to build the five-tube by about $10.00 to -15.00, but if you do it rightly, it will be worth the extra cost, but USE THREE CONDENSERS, don't use one tandem for two stages. It can be done with proper spacing of the condensers, but the regular dual ARE NOT and CAN NOT be properly spaced. Stick to the three separate condensers, or build the four-tube if you must have two controls (tuning, of course).

QUESTION—Mr. Harris Opp of Dillon, Mont., asks advice as to the construction of a cage antenna.

ANSWER—If you are building the antenna for a receiving antenna, put up a carefully insulated and isolated No. 14 solid or stranded singe wire, remembering that the higher the greater the erlation of noise to signal, and the longer the less selective. Better use a small antenna and couple tighter to your grid coil. If you are to use the antenna for transmitting, do not use the cage; it is found by the fellows that know to be poor. It puts the effective capacity too near the ground, or too near the tuning coil, and of course this applies also to the receiver. The vertical or the flat top is the best, the best use them only except for some special condition of multiple tuning, etc.

QUESTION—Gilbert I. Doble, Jasmine, Cal., says that on his receiver (6-tube Radiola Super), there is a rheostat and a volume control and wants to know if using the rheostat for volume control and putting the volume control dial in the loud position there will be any difference in upkeep, etc.

ANSWER—There will be less drain on your batteries and less wear and tear on your tubes if you place the volume control in the loud position and control volume with the rheostat. BUT —there will be a position near the lowest point on the rheostat where you will notice distortion beginning, and here is the place to stop reducing voltage on all of the tubes but up to that point volume control by the rheostat IS THE LOGICAL thing to do, and I believe you will be the one to judge when distortion shows itself to a degree that is unpleasant.

QUESTION—Mr. L. Penn of Clear Lake Highlands, Cal., has a five tube set and wants to know why 90 volts B gives a higher amplification than 45 and why his set roars at times.

ANSWER—In the construction of some receivers particular details are designed for 90 volts and less than that, of course, does not meet the conditions and the results are less amplification, but in other receivers which are just assembled in which no particular design is used, the volume is not so much effected by the change you mention. The noise you refer to is, no doubt, mechanical, acoustic, coupling between

Questions and Answers—*Continued*

the speaker and the detector tube. This can be remedied either by trying other tubes in the detector socket until a combination is found that will not respond, or by turning the filament of the detector either up higher or lower (if it has a separate rheostat, which it should have), or last by moving the speaker to some other locality with respect to the receiver, each case his its own idiosyncrasies.

QUESTION—Fred Lawyer of Monrovia asks how many turns to use for the primary of a neutrodyne he is building and should they be space wound.

ANSWER—Try fifteen for short antenna coupling and either cut down the antenna or take out turns until the degree of selectivity is had, preferably the former. You do not say that you will use large or small tubes and this means a good deal of difference, but try eight turns on the first and fifteen on the last and cut down until you can control the oscillations. I wish I could make everybody understand that it IS IMPOSSIBLE TO tell the usable and proper number of turns for a given size coil even if nearly all the other conditions of use are known because the relations of the parts and the care of the builder varies so much that the optimum number might vary as much as four or five hundred per cent; you MUST WIND ON A FEW AND TRY MORE OR LESS if you want to get the right number, as trial only will give you the critical winding and if you have not that you have NOTHING.

QUESTION—Henry Harrison of Los Angeles asks how to connect a four-volt Willard storage battery to his Radiola 25. Why the third tube is the only visibly effected when changing volume; what is each tube for and why do they all remain lighted when I have my phone jack in the second stage.

ANSWER—If you look over the cable that connects to the round dry A batteries you will find a single black wire with a yellow marker. This should be connected to the negative of your four-volt storage battery, and you will find a single all black and a yellow wire with a red marker connected to another terminal; this should connect to the positive of your battery. The first tube from the right is the first detector and one of the reflexed radio amplifiers; the second tube is the second harmonic oscillator and one of the radio amplifiers; the third tube is purely a radio amplifier and the one whose filament current is varied by the volume control, while the fourth is the second detector and the fifth and sixth is the first and second audio amplifier respectively. You undoubtedly mean the last tube remains lighted when you plug into the first stage jack (not the second as you have stated), and I will explain that the sixth and last tube, the power tube, remains lighted so as not to take the heavy filament load off the rheostat when the voltage would jump up and the tubes would be, in most cases, damaged, due to the higher voltage on their filaments as when jumping from one to the other jack most people would not think to cut down on the rheostat. This is in line with the writer's advice, many times repeated, to USE ALL THE AUDIO STAGES all the time and make volume control with the VOLUME CONTROL provided for the purpose. The jack in the first stage is to be used ONLY when a power amplifier like the Radiola 104 is used when the impedance of the UV120 tube would not result in satisfactory tone quality, being too low and the lower tones would be too prominent.

The Sargent Infradyne

By N. E. BROWN, Radio Technician
Institute of Radio Engineers—American Society of Mechanical Engineers; American Institute of Electrical Engineers

A set was built up hurriedly by an assistant of the writer's, following carefully the suggestions of the designer, after which changes were made and the effect carefully noted.

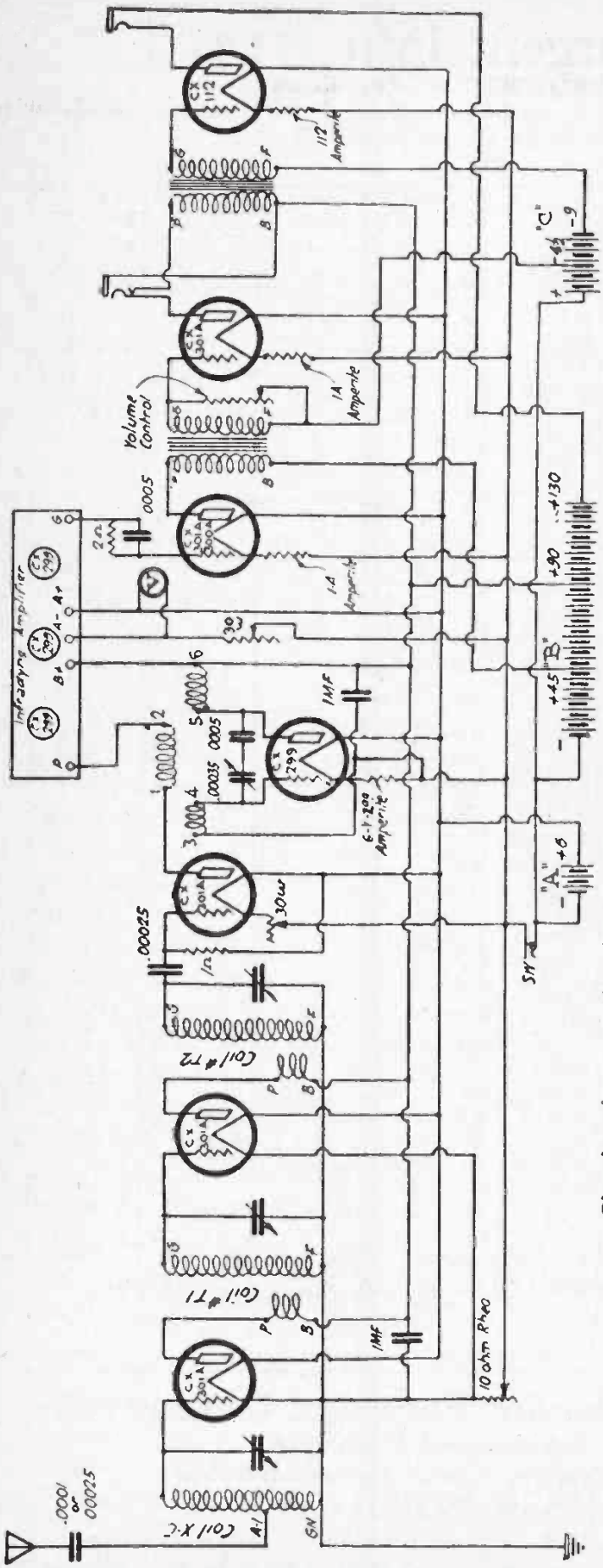
We would suggest using grid modulation of the first detector in place of plate modulation; it is believed that grounding the can of the intermediate amplifier greatly helped to stabilize its operation, and that voltages less than 90 on the amplifier seemed to give better results, it is believed that around 60 volts will be found most useful here. The tuning of the intermediate amplifier was found very critical and the width of a line was all required to effect a vast change. The oscillator worked out O. K., but do not think it wise to use any other condenser here than the Remler, on account of body capacity effects. The one thing important to get the most out of the equipment is a first-class neutrodyne radio amplifier at broadcast frequencies, for if this is not sharp and stable, the results will leave a great deal to be desired. In fact, the writer believes the most profitable proceedure in building the receiver would be to finish the broadcast frequency and audio amplifier first (making all preparations for the insertion of the short wave amplifier), and get it to working as a first-class neutrodyne, being sure it is sharp and controllable before connecting the Infradyne amplifier.

One should test out the audio amplifier and see that everything is working O. K. before the set, as a whole, is connected up. In fact, the writer thinks it would be advisable to install switches which would convert the receiver to a straight five-tube neutrodyne, cutting out the short wave amplifier entirely. This would greatly help in running down troubles that might creep into the receiver from time to time, as well as greatly facilitating the getting in shape of the whole outfit, and too much stress cannot be placed upon the goodness of the tuned R. F. amplifier that is to work ahead of the short wave amplifier, and the careful workman will be rewarded with a receiver that is as sharp as a razor, giving fine reproduction and as sensitive as could be desired.

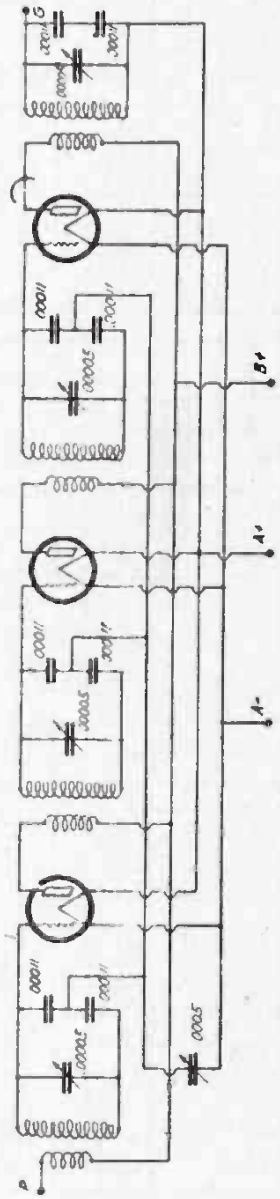
In making up the convertable set, as suggested, one anticapacity switch can be made to cut out the oscillator, short wave amplifier and the second detector connecting the output of the first detector directly into the first audio transformer and caring for the filaments as well. This should make a very flexible and useful receiver, using the short wave amplifier on distance reception only where maximum amplification is desired and switching over by a twist of the anticapacity switch to a straight neutrodyne for locals and less distance. (List of parts to be used in this circuit, appears in last week's edition.)

"KNRC"—*Continued*

prominent role in "The Three Twins," and "A Knight for a Day." Prior to associating himself with Station KNRC, he was an exclusive KNX artist. later serving as program manager for Station KMTR. Kierulff & Ravenscroft are fortunate in obtaining the services of a man of "Tom's" calibre, so tune in on KNRC and prove for yourself that all we have said, is putting it very mildly, as to both Tom Mitchell and and Station KNRC, "The Station with a Smile."



Circuit Diagram of Infradyne Receiver. (Correction: 6V-299 should be 6V-199).



Circuit Diagram of Infradyne Amplifier Unit.

SUNDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME
(X) Indicates Station Is On the Air

10-12 A.M.				12-2 P.M.				2-4 P.M.				4-6 P.M.				STATIONS				6-8 P.M.				8-10 P.M.				10-12 P.M.			
10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	12.00-12.30	12.30- 1.00	1.00- 1.30	1.30- 2.00	2.00- 2.30	2.30- 3.00	3.00- 3.30	3.30- 4.00	4.00- 4.30	4.30- 5.00	5.00- 5.30	5.30- 6.00	CALL	Wave Length Meters	Power in Watts	STATION	6.00- 6.30	6.30- 7.00	7.00- 7.30	7.30- 8.00	8.00- 8.30	8.30- 9.00	9.00- 9.30	9.30-10.00	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00
X	X	X	X	X												K H J	405	500	Los Angeles	X		X	X	X	X	X	X				
X	X	X	X									X				K F I	467	4000	Los Angeles		X	X	X	X	X	X	X	X	X		
X	X	X	X	X												K T B I	294	750	Los Angeles	X	X	X	X	X	X	X					
	X	X	X	X					X	X	X	X				K F S G	275	500	Los Angeles		X	X	X	X	X	X	X	X	X		
X	X	X	X					X	X	X	X	X	X			K N X	337	500	Los Angeles		X	X	X	X	X	X	X				
																K F W B	252	500	Hollywood							X	X	X	X		
																K M T R	238	500	Hollywood			X	X	X	X	X	X				
																K F Q Z	226	50	Hollywood					X	X	X	X	X	X	X	X
	X	X	X	X												K P S N	315	950	Pasadena												
X	X	X	X	X												K P P C	229	50	Pasadena												
					X	X								X	X	K F W O	211	250	Catalina	X	X	X	X	X	X	X					
X	X	X	X									X	X			K F W C	111	200	San Bernardino							X	X	X	X	X	X
									X	X	X			X	X	K F O N	233	500	Long Beach	X	X	X	X	X	X	X	X	X	X		
		X	X													K F V D	205	50	San Pedro				X	X	X						
										X	X					K F S D	246	1000	San Diego	X	X	X	X	X	X	X	X				
X	X								X	X				X	X	K P O	428	1000	San Francisco	X	X	X	X	X	X	X	X				
																K F R C	268	50	San Francisco		X	X						X	X	X	X
									X	X	X	X	X			K G T T	207	50	San Francisco					X	X	X	X				
X	X	X	X	X												K T A B	240	1000	Oakland				X	X	X	X					
		X	X	X								X	X			K G O	361	4000	Oakland		X	X	X	X	X	X	X				
													X	X		K F U S	258	50	Oakland												
X	X															K R E	256	100	Berkeley		X	X		X	X						
																K F W H	254	100	Chico				X	X	X						
		X	X			X	X									K F Q U	217	100	Alma, Calif.							X	X				
																K G U	270	500	Honolulu									X	X	X	
		X	X	X												K J R	384	1000	Seattle				X	X	X	X	X	X	X		
																K T C L	305	1000	Seattle					X	X	X	X				
		X	X							X	X					K T W	272	750	Seattle			X	X	X	X	X					
	X	X	X													K G W	491	1000	Portland				X	X	X	X	X				
																K O I N	319	1000	Portland				X	X	X						
																C F A C	436	2000	Calgary		X	X	X								
X	X												X	X		K O A	322	5000	Denver			X	X								
																K F A D	272	100	Phoenix					X	X						
X	X															K F C B	238	100	Phoenix, Ariz.												
X	X					X	X									K S L	300	1000	Salt Lake City	X	X	X	X								
																W O A W	526	1000	Omaha			X	X								
			X	X												K O B	349	1000	State Col., N. M.						X	X	X				
											X	X	X	X	X	W G Y	379	5000	Schenectady	X	X										
																W O A I	394	2000	San Antonio	X	X	X	X	X							
	X				X									X	X	W B A P	476	1000	Fort Worth											X	
				X	X										X	W O C	484	5000	Davenport			X	X	X	X						
												X	X			K S D	545	750	St. Louis	X	X										
																K Y W	536	3500	Chicago			X	X	X	X						
						X	X	X	X	X	X	X	X	X	X	K D K A	309	1000	Pittsburgh												
												X	X	X	X	W M B F	384	500	Miami, Fla.	X	X	X	X	X	X						

Authorized Dealer for Fada and Crosley Sets

Sales, Service and Exchange

Battery Charging, 50c—Tubes Rejuvenated Free

DAVIS RADIO CO.

Time Payments if Desired.
Open Evenings and Sundays

HUmbolt 0212
2722 S. Main St., Los Angeles

MONDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME
(X) Indicates Station Is On the Air

10-12 A.M.				12-2 P.M.				2-4 P.M.				4-6 P.M.			
10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	12.00-12.30	12.30-1.00	1.00-1.30	1.30-2.00	2.00-2.30	2.30-3.00	3.00-3.30	3.30-4.00	4.00-4.30	4.30-5.00	5.00-5.30	5.30-6.00
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
.	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.
X	X	.	.	X	X	.	X	.	.	X	.	.	X	X	X
.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.
.	.	.	.	.	.	X	X	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X
.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	X	X	.	.	.	.	.	.	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.
.	.	.	X	X	X	.	.	.	.	.	.	X	.	X	X
.	.	.	.	X	X	X	.	.	.	X	X	.	.	.	.
.	X	.	.	X	X	X	X	.	X	X	X	X	X	X	X
X	X	X	.	.	.	.	.	X	X	X	X	.	.	.	X
X	X	.	.	.	.	.	.	.	.	.	.	.	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	X	X	X	.	X	.	.	.	.	.	.	.	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
X	X	.	.	.	X	X	.	.	.	X	X	X	X	X	.
.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
X	X	X	.	.	X	X	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	X	X	.	.
.	.	X	.	.	.	.	.	.	.	.	.	.	.	X	X
.	.	.	.	.	.	.	.	.	.	X	X	.	.	.	.
.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	.
.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X
.	X	X	.	.	.	.	.	.	.	.	.	.	.	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	X	X	X	X	.	.
.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X
X	.	.	.	X	.	.	.	.	.	.	X	.	.	X	.
.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X
X	.	.	.	.	.	.	.	.	.	.	.	X	.	.	X
.	.	.	.	.	.	.	X	.	.	.	.	X	X	X	X
.	.	X	.	.	.	.	.	.	.	.	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X
.	.	.	.	.	.	.	.	.	.	.	X	X	X	.	.
X	.	X	.	.	.	X	.	X	.	.	.	.	X	X	X
.	.	.	.	.	.	X	X	X	X	X	X	.	.	X	X
.	.	.	.	X	X	X	X	X	X	.	.	.	.	.	X
.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	X

STATIONS				6-8 P.M.				8-10 P.M.				10-12 P.M.			
CALL	Wave Length Meters	Power in Watts	STATION	6.00-6.30	6.30-7.00	7.00-7.30	7.30-8.00	8.00-8.30	8.30-9.00	9.00-9.30	9.30-10.00	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00
KFI	467	4000	Los Angeles	X	X	X	X	X	X	X	X	X	X	.	.
KHJ	405	500	Los Angeles	.	.	.	.	.	.	.	.	.	.	.	.
KNX	337	500	Los Angeles	X	X	X	X	X	X	X	X	X	X	X	X
KTBI	294	750	Los Angeles	.	.	X	X	X	X	.	.	.	.	.	.
KNRC	208	250	Los Angeles	.	.	.	X	X	X	X	X	.	.	.	.
KFWB	252	500	Hollywood	X	X	X	X	X	X	X	X	X	X	.	.
KMTR	238	500	Hollywood	X	X	X	X	X	X	X	X	.	.	.	.
KFQZ	226	50	Hollywood	X	X	.	X	X	X	X	X	X	X	.	.
KPSN	315	1000	Pasadena	X	.	.	.	.	.	.	.	.	.	.	.
KFWC	211	100	San Bernareino	.	.	.	.	X	X	X	X	X	X	X	X
KFXB	202	500	Big Bear	.	.	.	.	X	.	.	.	.	.	.	.
KFON	233	500	Long Beach	X	X	X	X	X	X	X	X	X	X	X	X
KFVD	205	50	San Pedro	X	X	.	.	X	X	X	X	X	X	.	.
KFSD	246	1000	San Diego	X	X	X	X	X	X	X	X	X	X	.	.
KPO	428	1000	San Francisco	X	X	X	X	X	X	X	X	X	X	.	.
KJBS	220	5	San Francisco	.	.	.	.	.	.	.	.	.	.	.	.
KFRC	268	50	San Francisco	X	X	X	.	X	X	X	.	.	.	.	.
KTAB	303	1000	Oakland	.	.	X	.	X	X	X	X	.	.	.	.
KGO	361	4000	Oakland	X	X	X	.	X	X	X	X	.	.	.	.
KZM	240	100	Oakland	.	X	.	.	.	.	.	.	.	.	.	.
KLX	508	500	Oakland	.	.	X	.	X	X	X	X	.	.	.	.
KFUS	256	50	Oakland	.	.	.	.	.	.	.	.	.	.	.	.
KRE	256	100	Berkeley	.	.	.	.	X	X	X	X	.	.	.	.
KMJ	234	50	Fresno	.	.	X	X	X	X	X	.	.	.	.	.
KFWH	254	100	Chico	.	X	X	.	X	X	X	X	.	.	.	.
KFBK	248	100	Sacramento	X	X	.	X	X	X	X	X	.	.	.	.
KFOA	454	1000	Seattle	.	.	X	X	X	X	X	X	.	.	.	.
KJR	384	1000	Seattle	X	.	.	.	.	X	X	X	.	.	.	.
KTCL	305	1000	Seattle	.	.	X	X	X	X	.	.	.	.	.	.
KHQ	394	1000	Spokane	X	X	.	.	X	X	.	.	.	.	.	.
KWSC	349	500	Pullman	.	.	.	X	X	X	.	.	.	.	.	.
KOWW	256	500	Walla Walla	.	.	X	.	X	X	X	X	X	X	X	X
KGW	491	500	Portland	X	X	X	X	.	.	X	X	.	.	.	.
KFJR	263	50	Portland	.	.	.	X	X	.	.	.	.	.	.	.
KFEC	248	50	Portland	X	.	.	.	.	.	.	.	.	.	.	.
KFWV	212	50	Portland	X	X	X	X	X	.	.	.	.	.	.	.
KOIN	319	1000	Portland	.	.	.	.	X	X	X	X	.	.	.	.
KOAC	280	500	Corvallis, Ore.	.	.	X	X	X	X	.	.	.	.	.	.
CFAC	437	2000	Calgary	.	.	.	.	X	X	.	.	.	.	.	.
KSL	300	1000	Salt Lake City	X	X	X	X	X	X	.	.	.	.	.	.
KOA	322	5000	Denver	X	X	X	X	X	.	.	.	.	.	.	.
KLZ	266	500	Denver	.	.	X	.	.	.	.	.	X	X	.	.
KFCB	238	100	Phoenix	.	X	X	.	.	.	.	.	.	.	.	.
KOB	349	1000	State Col., N. M.	.	X	X	.	.	X	X	X	.	.	.	.
KFWA	261	500	Ogden	.	.	.	.	.	.	.	.	.	.	.	.
WOAW	526	1000	Omaha	X	X	X	X	X	X	.	.	.	.	.	.
WOC	484	5000	Davenport	X	X	.	.	.	.	.	.	.	.	.	.
WOAI	394	2000	San Antonio	.	.	.	.	.	.	.	.	.	.	.	.
WBAP	476	1000	Fort Worth	.	.	.	X	X	X	X	X	.	.	.	.
WDAF	368	500	Kansas City, Mo.	X	X	X	X	X	X	X	X	X	X	.	.
KFKX	288	5000	Hastings	.	.	X	X	X	.	.	.	.	.	.	.
KSD	545	500	St. Louis	.	.	X	X	X	.	.	.	.	.	.	.
KYW	536	3500	Chicago	.	.	.	.	.	.	.	.	.	.	.	.
WLW	422	5000	Cincinnati	X	X	.	.	.	.	.	.	.	.	.	.
KDKA	309	1000	Pittsburgh	X	.	.	.	.	.	.	.	.	.	.	.
WJZ	454	1000	New York	X	.	.	.	.	.	.	.	.	.	.	.
WGY	379	5000	Schenectady	X	X	X	X	.	.	.	.	.	.	.	.

TUESDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME
(X) Indicates Station Is On the Air

10-12 A.M.				12-2 P.M.				2-4 P.M.				4-6 P.M.				STATIONS				6-8 P.M.				8-10 P.M.				10-12 P.M.			
10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	12.00-12.30	12.30-1.00	1.00-1.30	1.30-2.00	2.00-2.30	2.30-3.00	3.00-3.30	3.30-4.00	4.00-4.30	4.30-5.00	5.00-5.30	5.30-6.00	CALL	Wave Length Meters	Power In Watts	STATION	6.00-6.30	6.30-7.00	7.00-7.30	7.30-8.00	8.00-8.30	8.30-9.00	9.00-9.30	9.30-10.00	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	KFI	467	4000	Los Angeles	X	X	X	X	X	X	X	X	X	X	.	.
.	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	KHJ	405	500	Los Angeles	X	X	X	X	X	X	X	X	X	X	.	.
X	X	.	.	X	X	.	X	X	X	.	.	.	.	X	X	KNX	337	500	Los Angeles	X	X	X	X	X	X	X	X	X	X	X	X
.	X	X	X	X	.	.	.	.	X	X	X	X	.	.	.	KFSG	275	500	Los Angeles	.	X	X	X	X	X	X	.	.	.	.	.
.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.	KTBI	294	750	Los Angeles	.	.	X	X	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	KNRC	208	250	Los Angeles	X	X	X	X	X	X	X	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	KFWB	252	500	Hollywood	X	X	.	.	X	X	X	X	X	X	.	.
X	.	X	.	.	.	.	.	.	.	X	X	.	.	X	X	KMTR	238	500	Hollywood	X	X	X	X	X	X	X	X	.	.	.	.
.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	.	KFQZ	226	50	Hollywood	X	X	.	.	X	X	X	X	X	X	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KPSN	315	1000	Pasadena	X	.	.	X	X	X	.	.	.	.	.	.
.	.	X	X	X	.	.	.	.	.	.	.	X	X	.	.	KFWC	211	100	San Bernardino	.	.	.	.	.	.	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	KFXB	202	500	Big Bear	.	.	.	.	X	.	.	.	.	.	.	.
.	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	KFWO	211	250	Catalina	X	X	X	X	X	X	.	.	.	.	.	.
.	.	.	X	X	.	.	.	.	X	X	X	X	.	X	X	KFON	233	500	Long Beach	X	X	X	X	X	X	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KFVD	205	50	San Pedro	X	X	.	.	.	.	.	.	.	.	.	.
.	.	.	.	X	X	X	.	.	.	.	.	.	.	.	.	KFSD	246	1000	San Diego	X	X	X	X	X	X	X	X	X	X	.	.
.	X	.	.	X	X	X	X	.	X	X	.	.	X	X	X	KPO	428	1000	San Francisco	X	X	X	X	X	X	X	X	X	X	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	KFRC	268	50	San Francisco	X	X	X	.	X	X	X	.	.	.	.	.
X	X	X	.	.	.	.	.	X	X	X	X	.	.	.	.	KJBS	220	5	San Francisco	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KTAB	303	1000	Oakland	.	.	X	.	.	.	.	.	.	.	.	.
.	X	X	X	X	X	.	X	X	X	X	X	.	.	.	.	KGO	361	4000	Oakland	X	X	X	.	X	X	X	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	X	X	X	.	.	.	KLX	508	500	Oakland	.	.	X	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KFUS	256	50	Oakland	.	X	X	X	.	.	.	.	.	.	.	.
.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	X	KRE	256	100	Berkeley	.	.	.	.	.	.	X	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KZM	240	100	Oakland	.	X	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KFOB	226	50	Burlingame	.	.	.	.	X	X	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KFWH	254	100	Chico	.	.	X	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.	KMJ	234	50	Fresno	.	.	.	.	.	.	.	.	.	.	.	.
X	.	.	.	.	X	X	.	.	.	.	.	X	.	.	.	KFOA	454	1000	Seattle	X	X	X	X	X	X	X	X	X	X	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KTCL	305	1000	Seattle	.	.	X	X	X	X	X	X	X	X	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KFQX	233	1000	Seattle	.	.	X	X	.	.	.	.	.	.	.	.
.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	X	KJR	384	1000	Seattle	X	.	.	.	.	X	X	X	.	.	.	.
.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.	KHQ	394	1000	Spokane	X	X	X	X	X	X	X	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KOWW	256	500	Walla Walla	.	.	X	.	.	.	.	.	.	.	.	.
X	X	X	.	.	X	X	.	X	X	.	.	.	.	.	.	KGW	491	1000	Portland	X	X	.	X	X	X	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KFJR	263	50	Portland	.	.	.	X	.	.	X	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	X	X	.	.	KFEC	248	50	Portland	X	.	.	.	.	.	.	.	.	.	.	.
.	.	X	.	.	.	.	.	.	.	.	.	.	.	X	X	KFWV	212	50	Portland	X	X	X	X	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	X	X	.	.	.	.	KOIN	319	1000	Portland	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	CFAC	436	2000	Calgary	.	.	X	X	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	CFCA	356	1000	Toronto	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	CNRV	291	5000	Vancouver	.	.	.	X	X	X	X	X	X	.	.	.
.	X	X	.	.	.	.	.	.	X	X	.	.	.	X	X	KOA	322	5000	Denver	X	X	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KLZ	266	500	Denver	.	.	X	X	X	.	X	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	X	X	X	X	.	.	KFWA	261	500	Ogden, Utah	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	KSL	300	1000	Salt Lake City	X	X	X	X	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	WOAW	526	1000	Omaha	X	X	X	X	X	X	X	X	X	X	.	.
.	.	.	.	.	.	.	X	X	.	.	.	X	X	.	.	WDAF	366	500	Kansas City	.	.	.	.	.	.	.	X	X	X	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	WOAI	394	2000	San Antonio	X	X	X	X	X	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	X	KFKX	288	5000	Hastings	.	.	.	.	.	.	.	.	.	.	.	.
X	X	X	.	X	.	.	.	.	.	.	.	X	.	X	X	WBAP	476	1000	Ft. Worth	X	.	X	X	.	.	.	.	.	.	.	.
X	.	.	.	X	.	.	X	.	.	.	X	X	.	.	.	WOC	484	5000	Davenport	.	.	.	.	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	KYW	535	3500	Chicago	X	X	X	X	X	X	X	X	.	.	.	.
X	.	.	X	.	.	X	.	X	.	.	.	.	X	X	X	WLW	422	5000	Cincinnati	X	X	X	X	.	.	.	.	.	.	.	.
.	.	.	.	.	.	X	X	X	X	X	.	.	.	X	X	KDKA	309	1000	Pittsburgh	X	X	X	X	X	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	WGY	379	5000	Schenectady	X	X	.	.	.	.	.	.	.	.	.	.

WEDNESDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME
(X) Indicates Station Is On the Air

STATIONS				10-12 A.M.				12-2 P.M.				2-4 P.M.				4-6 P.M.			
CALL	Wave Length Meters	Power in Watts	STATION	10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00	12 00-12 30	12 30- 1 00	1 00- 1 30	1 30- 2 00	2 00- 2 30	2 30- 3 00	3 00- 3 30	3 30- 4 00	4 00- 4 30	4 30- 5 00	5 00- 5 30	5 30- 6 00
KFI	467	4000	Los Angeles																X
KHJ	405	500	Los Angeles						X	X			X						
KNX	337	500	Los Angeles	X	X			X	X		X	X		X	X	X	X	X	X
KFSG	275	500	Los Angeles		X	X	X	X					X	X	X	X	X	X	
KTBI	294	750	Los Angeles									X	X						
KNRC	208	250	Los Angeles																X
KFWB	252	500	Hollywood														X	X	X
KMTR	238	500	Hollywood	X														X	X
KFQZ	226	50	Hollywood					X	X										
KPSN	315	1000	Pasadena																
KFWC	211	100	San Bernardino			X	X	X								X	X	X	X
KFXB	202	500	Big Bear															X	
KFWO	211	250	Catalina						X	X									
KFVD	205	50	San Pedro																
KFSD	246	1000	San Diego					X	X	X									
KFON	233	500	Long Beach				X	X					X	X	X	X	X	X	X
KPO	428	1000	San Francisco		X			X	X	X	X		X	X			X	X	X
KFRC	268	50	San Francisco	X	X														
KJBS	220	5	San Francisco	X	X	X						X	X	X	X				
KTAB	302	1000	Oakland																
KGO	361	4000	Oakland				X	X	X		X	X	X						X
KLX	508	500	Oakland											X	X	X			
KZM	240	100	Oakland																
KFUS	256	50	Oakland	X	X														
KRE	256	100	Berkeley			X													X
KMJ	234	50	Fresno																
KFWH	254	100	Chico																
KGW	491	1000	Portland	X	X	X			X	X									
KFJR	263	50	Portland																
KOIN	319	1000	Portland											X	X				
KFEC	248	50	Portland													X	X		
KFWV	212	50	Portland			X												X	X
KOAC	280	500	Corvallis, Ore.									X							
KFOA	454	1000	Seattle	X					X	X						X			
KTCL	305	1000	Seattle																
KJR	384	1000	Seattle				X							X	X				X
KOWW	256	500	Walla Walla																
KWSC	349	500	Pullman																
CFAC	436	2000	Calgary					X						X	X				
WOAI	394	2000	San Antonio														X	X	
WBAP	476	1000	Fort Worth	X		X		X								X			X
WSMB	319	500	New Orleans																
WOC	484	5000	Davenport	X				X			X				X			X	
WHO	526	5000	Des Moines	X	X	X	X										X	X	X
KOA	322	5000	Denver		X	X												X	X
KLZ	266	500	Denver																
KFCB	238	100	Phoenix																
WOAW	526	1000	Omaha													X	X	X	X
KSD	545	750	St. Louis															X	X
KSL	300	1000	Salt Lake City															X	X
KFWA	261	500	Ogden											X	X	X	X		
WDAF	366	500	Kansas City								X					X	X		
KFKX	288	5000	Hastings												X				
WLS	345	1500	Crete, Ill.	X	X				X	X	X								
KYW	535	3500	Chicago													X	X	X	X
WLW	422	5000	Cincinnati	X			X			X		X						X	X
KDKA	300	1000	Pittsburgh							X	X	X	X	X	X			X	X

STATIONS				6-8 P.M.				8-10 P.M.				10-12 P.M.			
CALL	Wave Length Meters	Power in Watts	STATION	6 00- 6 30	6 30- 7 00	7 00- 7 30	7 30- 8 00	8 00- 8 30	8 30- 9 00	9 00- 9 30	9 30-10 00	10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00
KFI	467	4000	Los Angeles	X	X	X	X	X	X	X	X	X	X		
KHJ	405	500	Los Angeles	X	X	X	X	X	X	X	X	X	X		
KNX	337	500	Los Angeles	X	X	X	X	X	X	X	X	X	X	X	X
KFSG	275	500	Los Angeles		X	X									
KTBI	294	750	Los Angeles			X	X	X	X						
KNRC	208	250	Los Angeles	X	X	X	X	X	X	X	X	X			
KFWB	252	500	Hollywood			X	X	X	X	X	X	X	X		
KMTR	238	500	Hollywood	X	X	X	X	X	X	X	X				
KFQZ	226	50	Hollywood	X	X		X	X	X	X	X	X	X		
KPSN	315	1000	Pasadena	X											
KFWC	211	100	San Bernardino							X	X	X	X	X	X
KFXB	202	500	Big Bear					X							
KFWO	211	250	Catalina	X	X	X	X	X	X						
KFVD	205	50	San Pedro	X	X			X	X	X	X	X	X		
KFSD	246	1000	San Diego	X	X	X	X	X	X	X	X	X	X		
KFON	233	500	Long Beach	X	X	X	X	X	X	X	X	X	X		
KPO	428	1000	San Francisco	X	X	X	X	X	X	X	X	X	X		
KFRC	268	50	San Francisco		X	X		X	X	X	X	X	X	X	X
KJBS	220	5	San Francisco												
KTAB	302	1000	Oakland	X		X		X	X	X	X				
KGO	361	4000	Oakland	X	X	X									
KLX	508	500	Oakland		X	X		X	X	X	X				
KZM	240	100	Oakland		X										
KFUS	256	50	Oakland					X	X						
KRE	256	100	Berkeley												
KMJ	234	50	Fresno			X	X	X	X	X					
KFWH	254	100	Chico		X	X		X	X	X	X	X	X	X	X
KGW	491	1000	Portland	X	X		X	X	X						
KFJR	263	50	Portland				X	X	X						
KOIN	319	1000	Portland					X	X	X	X				
KFEC	248	50	Portland	X											
KFWV	212	50	Portland	X	X	X	X	X	X						
KOAC	280	500	Corvallis, Ore.				X	X							
KFOA	454	1000	Seattle	X	X	X	X	X	X	X	X				
KTCL	305	1000	Seattle			X	X	X	X	X	X	X	X		
KJR	384	1000	Seattle	X			X	X				X	X		
KOWW	256	500	Walla Walla			X									
KWSC	349	500	Pullman				X	X	X						
CFAC	436	2000	Calgary												
WOAI	394	2000	San Antonio												
WBAP	476	1000	Fort Worth			X	X								
WSMB	319	500	New Orleans	X	X	X	X	X							
WOC	484	5000	Davenport	X	X										
WHO	526	5000	Des Moines	X	X	X	X	X	X	X					
KOA	322	5000	Denver	X	X	X	X	X							
KLZ	266	500	Denver			X									
KFCB	238	100	Phoenix			X	X								
WOAW	526	1000	Omaha	X	X	X	X	X	X	X	X	X	X		
KSD	545	750	St. Louis	X	X										
KSL	300	1000	Salt Lake City	X	X	X	X	X	X	X	X				
KFWA	261	500	Ogden					X	X	X	X				
WDAF	366	500	Kansas City	X	X	X					X		X	X	
KFKX	288	5000	Hastings			X	X	X	X						
WLS	345	1500	Crete, Ill.	X	X	X	X	X	X	X		X			
KYW	535	3500	Chicago	X	X	X	X	X	X	X					
WLW	422	5000	Cincinnati	X	X	X	X	X	X						
KDKA	300	1000	Pittsburgh	X	X	X	X								

THURSDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME

(X) Indicates Station Is On the Air

STATIONS				10-12 A.M.				12-2 P.M.				2-4 P.M.				4-6 P.M.			
CALL	Wave Length Meters	Power In Watts	STATION	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	12.00-12.30	12.30-1.00	1.00-1.30	1.30-2.00	2.00-2.30	2.30-3.00	3.00-3.30	3.30-4.00	4.00-4.30	4.30-5.00	5.00-5.30	5.30-6.00
KFI	467	4000	Los Angeles	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
KHJ	405	500	Los Angeles	.	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.
KNX	337	500	Los Angeles	X	X	X	.	X	X	.	X	X	.	.	.	.	.	X	X
KFSG	275	500	Los Angeles	.	X	X	X	X	.	.	.	.	X	X	X	X	.	.	.
KTBI	294	750	Los Angeles	.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.
KNRC	208	250	Los Angeles	.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	X
KFWB	252	500	Hollywood	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KMTR	238	500	Hollywood	.	X	.	.	.	.	.	.	.	.	.	.	.	.	X	X
KFQZ	226	50	Hollywood	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	.
KPSN	315	1000	Pasadena	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KFWC	211	100	San Bernardino	.	.	.	.	X	X	.	.	.	.	.	.	X	X	X	X
KFXB	202	500	Big Bear	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.
KFWO	211	250	Catalina	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KFON	233	500	Long Beach	.	.	.	X	X	.	.	.	.	X	X	X	X	X	X	X
KFVD	205	50	San Pedro	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KFSD	246	1000	San Diego	.	.	.	.	X	X	X	.	.	.	.	.	.	.	.	.
KPO	428	1000	San Francisco	.	X	.	.	X	X	X	X	.	X	X	.	.	X	X	X
KFRC	268	50	San Francisco	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
KJBS	220	5	San Francisco	X	X	X	.	.	.	.	.	X	X	X	X	.	.	.	.
KTAB	303	1000	Oakland	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
KGO	361	3000	Oakland	.	.	.	X	X	X	.	X	X	X	X	X	.	.	X	X
KLX	508	500	Oakland	.	.	.	.	.	.	.	.	.	.	X	X	X	.	.	.
KFUS	256	50	Oakland	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KZM	240	100	Oakland	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KRE	256	100	Berkeley	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	X
KFBK	245	100	Sacramento	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KFWH	254	100	Chico	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KMJ	234	50	Fresno	.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.
KFOB	226	50	Burlingame	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KGW	491	1000	Portland	X	X	X	.	.	X	X	.	.	.	.	.	.	.	.	.
KFJR	263	50	Portland	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KOIN	319	1000	Portland	.	.	.	.	.	.	.	.	.	.	X	X	.	.	.	.
KFEC	248	50	Portland	.	.	.	.	.	.	.	.	.	.	.	.	X	X	.	.
KFWV	212	50	Portland	.	.	X	.	.	.	.	.	.	.	.	.	.	.	X	X
KTCL	305	1000	Seattle	X	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.
KFOA	454	1000	Seattle	.	.	.	.	.	X	X	.	.	.	X	X	X	X	X	.
KJR	384	1000	Seattle	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	X
KHQ	394	1000	Spokane	.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.
KOWW	256	500	Walla Walla	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CKCD	410	2000	Vancouver, B. C.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CFAC	436	2000	Calgary	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.
KGU	270	500	Honolulu	.	.	.	.	.	.	X	X	.	.	.	.	X	X	X	.
WOAI	394	2000	San Antonio	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
WBAP	478	1000	Fort Worth	X	.	X	.	X	.	.	X	.	.	.	.	.	.	.	.
WSMB	319	500	New Orleans	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KDA	322	5000	Denver	.	X	X	.	.	.	.	.	.	X	X	.	.	.	X	X
KLZ	266	500	Denver	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KSD	545	750	St. Louis	.	.	.	.	.	.	.	.	X	X	.	.	.	.	X	X
KSL	300	1000	Salt Lake City	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KFAU	280	750	Boise, Ida.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
KFWA	261	500	Ogden, Utah	.	.	.	.	.	.	.	.	.	.	X	X	X	X	.	.
WOAW	526	1000	Omaha	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X
WOC	484	5000	Davenport	X	.	.	.	X	.	.	.	.	.	.	X	.	.	X	.
KYW	535	3500	Chicago	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X
WLW	422	5000	Cincinnati	X	X	.	X	.	.	X	.	X	.	.	.	.	.	X	X
KDKA	309	1000	Pittsburgh	.	.	.	.	.	.	X	X	X	X	X	X	X	X	X	X
WGY	370	5000	Schenectady	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

STATIONS				6-8 P.M.				8-10 P.M.				10-12 P.M.			
CALL	Wave Length Meters	Power In Watts	STATION	6.00-6.30	6.30-7.00	7.00-7.30	7.30-8.00	8.00-8.30	8.30-9.00	9.00-9.30	9.30-10.00	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00
KFI	467	4000	Los Angeles	X	X	X	X	X	X	X	X	X	X	.	.
KHJ	405	500	Los Angeles	.	X	X	X	X	X	X	X	.	.	.	.
KNX	337	500	Los Angeles	X	X	X	X	X	X	X	X	X	X	X	X
KFSG	275	500	Los Angeles	.	.	.	X	X	X	X	X	X	X	.	.
KTBI	294	750	Los Angeles	.	.	X	X	X	X	.	.	.	.	.	.
KNRC	208	250	Los Angeles	X	X	X	X	X	X	X	X	.	.	.	.
KFWB	252	500	Hollywood	X	X	.	.	X	X	X	X	X	X	.	.
KMTR	238	500	Hollywood	X	X	X	X	X	X	X	X	.	.	.	.
KFQZ	226	50	Hollywood	X	X	.	.	X	X	X	X	X	X	.	.
KPSN	315	1000	Pasadena	X	.	.	.	X	X	.	.	.	.	.	.
KFWC	211	100	San Bernardino	.	.	.	.	.	.	X	X	X	X	X	X
KFXB	202	500	Big Bear	.	.	.	.	X	.	.	.	.	.	.	.
KFWO	211	250	Catalina	X	X	X	X	X	X	.	.	.	.	.	.
KFON	233	500	Long Beach	X	X	X	X	X	X	X	X	X	X	.	.
KFVD	205	50	San Pedro	X	X	.	.	.	.	.	.	.	.	.	.
KFSD	246	1000	San Diego	X	X	X	X	X	X	X	X	X	X	.	.
KPO	428	1000	San Francisco	X	X	X	.	X	X	X	X	X	X	.	.
KFRC	268	50	San Francisco	X	X	X	.	X	X	X	X	.	.	.	.
KJBS	220	5	San Francisco	.	.	.	.	.	.	.	.	.	.	.	.
KTAB	303	1000	Oakland	X	.	X	.	X	X	X	X	.	.	.	.
KGO	361	3000	Oakland	X	X	X	.	X	X	X	X	X	X	X	X
KLX	508	500	Oakland	.	.	X	.	.	.	.	.	.	.	.	.
KFUS	256	50	Oakland	.	X	X	X	.	.	.	.	.	.	.	.
KZM	240	100	Oakland	.	X	.	.	.	.	.	.	.	.	.	.
KRE	256	100	Berkeley	.	.	.	.	X	X	X	X	.	.	.	.
KFBK	245	100	Sacramento	.	.	.	X	X	X	X	X	.	.	.	.
KFWH	254	100	Chico	.	.	X	X	.	.	.	.	.	.	.	.
KMJ	234	50	Fresno	.	.	.	.	.	.	.	.	.	.	.	.
KFOB	226	50	Burlingame	.	.	.	.	X	X	X	X	X	X	X	X
KGW	491	1000	Portland	X	X	.	X	X	X	X	X	.	.	.	.
KFJR	263	50	Portland	.	.	.	X	X	X	X	X	X	.	.	.
KOIN	319	1000	Portland	.	.	.	.	X	X	X	X	.	.	.	.
KFEC	248	50	Portland	X	.	.	.	.	.	X	X	.	.	.	.
KFWV	212	50	Portland	X	X	X	X	X	X	.	.	.	.	.	.
KTCL	305	1000	Seattle	.	X	X	.	.	.	.	.	.	.	.	.
KFOA	454	1000	Seattle	.	.	.	.	.	.	.	.	.	.	.	.
KJR	384	1000	Seattle	X	.	.	.	.	X	X	X	X	X	X	X
KHQ	394	1000	Spokane	X	X	.	.	.	.	X	X	.	.	.	.
KOWW	256	500	Walla Walla	.	.	X	X	X	X	X	X	X	X	X	.
CKCD	410	2000	Vancouver, B. C.	.	.	.	.	.	X	X	.	.	.	.	.
CFAC	436	2000	Calgary	X	X	X	X	X	X	.	.	.	.	.	.
KGU	270	500	Honolulu	.	.	.	.	.	.	.	.	X	X	X	.
WOAI	394	2000	San Antonio	.	.	.	X	X	.	.	.	.	.	.	.
WBAP	478	1000	Fort Worth	X	.	.	X	.	X	X	.	.	.	.	.
WSMB	319	500	New Orleans	.	X	X	X	X	X	.	.	.	.	.	.
KDA	322	5000	Denver	X	.	.	.	.	.	.	.	.	.	.	.
KLZ	266	500	Denver	.	.	X	.	.	.	.	.	.	.	.	.
KSD	545	750	St. Louis	X	X	.	.	.	.	.	.	.	.	.	.
KSL	300	1000	Salt Lake City	X	X	X	X	X	X	X	X	.	.	.	.
KFAU	280	750	Boise, Ida.	.	.	X	X	X	X	.	.	.	.	.	.
KFWA	261	500	Ogden, Utah	.	.	.	.	.	.	.	.	.	.	.	.
WOAW	526	1000	Omaha	X	X	X	X	X	X	X	X	.	.	.	.
WOC	484	5000	Davenport	.	.	X	X	.	.	.	.	.	.	.	.
KYW	535	3500	Chicago	X	X	X	X	X	X	X	.	.	.	.	.
WLW	422	5000	Cincinnati	X	X	X	X	X	X	X	X	.	.	.	.
KDKA	309	1000	Pittsburgh	X	X	X	X	X	X	.	.	.	.	.	.
WGY	370	5000	Schenectady	X	X	X	X	X	X	.	.	.	.	.	.

FRIDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME
(X) Indicates Station Is On the Air

10-12 A.M.				12-2 P.M.				2-4 P.M.				4-6 P.M.				STATIONS				6-8 P.M.				8-10 P.M.				10-12 P.M.			
10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	12.00-12.30	12.30- 1.00	1.00- 1.30	1.30- 2.00	2.00- 2.30	2.30- 3.00	3.00- 3.30	3.30- 4.00	4.00- 4.30	4.30- 5.00	5.00- 5.30	5.30- 6.00	CALL	Wave Length Meters	Power in Watts	STATION	6.00- 6.30	6.30- 7.00	7.00- 7.30	7.30- 8.00	8.00- 8.30	8.30- 9.00	9.00- 9.30	9.30-10.00	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	K F I	467	4000	Los Angeles	X	X	X	X	X	X	X	X	X	X	.	.
.	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	K H J	405	500	Los Angeles	.	X	X	X	X	X	X	X	.	.	.	.
X	X	.	.	X	X	.	X	X	X	.	.	X	X	X	X	K N X	337	500	Los Angeles	X	X	X	X	X	X	X	X	X	X	X	X
.	X	X	X	X	.	.	.	.	X	X	X	X	.	.	.	K F S G	275	500	Los Angeles	.	.	.	X	X	X	X	X	.	.	.	.
.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.	K T B I	294	750	Los Angeles	X	X	X	X	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K N R C	208	250	Los Angeles	X	X	X	X	X	X	X	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K F W B	252	500	Hollywood	X	X	X	X	X	X	X	X	X	X	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	K M T R	238	250	Hollywood	X	X	X	X	X	X	X	X	.	.	.	.
.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	.	K F Q Z	226	250	Hollywood	X	X	.	.	X	X	X	X	X	X	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K P S N	315	1000	Pasadena	X	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K F W C	211	100	San Bernardino	X	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	K F X B	202	500	Big Bear	.	.	.	.	X	.	.	.	.	.	.	.
.	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	K F W O	211	250	Catalina	.	X	X	X	X	X	.	.	.	.	.	.
.	.	.	X	X	.	.	.	.	X	X	X	X	.	X	X	K F O N	233	500	Long Beach	X	X	X	X	X	X	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K F V D	205	50	San Pedro	X	X	.	.	.	.	.	.	.	.	.	.
.	.	.	.	X	X	X	.	.	.	.	.	.	.	.	.	K F S D	246	1000	San Diego	X	X	X	X	X	X	X	X	X	X	.	.
.	X	.	.	X	X	X	X	.	X	X	.	.	X	X	X	K P O	428	1000	San Francisco	X	X	X	.	X	X	X	X	X	X	.	.
X	X	X	.	.	.	.	.	X	X	X	X	.	.	.	.	K J B S	220	5	San Francisco	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K F R C	268	50	San Francisco	.	X	X	.	X	X	X	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K T A B	303	1000	Oakland	.	.	X	.	X	X	X	X	.	.	.	.
.	X	X	X	X	X	.	X	X	X	.	.	.	.	.	X	K G O	361	4000	Oakland	X	X	X	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	X	X	X	.	.	.	K L X	508	500	Oakland	.	.	X	.	X	X	X	X	X	.	.	.
X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K F U S	256	50	Oakland	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K Z M	240	100	Oakland	.	X	.	.	.	.	.	.	.	.	.	.
.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	X	K R E	256	100	Berkeley	.	.	.	.	.	.	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K M J	234	50	Fresno	.	.	X	X	X	X	X	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K F W H	254	100	Chico	.	X	X	.	X	X	X	X	.	.	.	.
X	X	X	.	.	X	X	.	X	X	.	.	.	.	.	.	K G W	491	1000	Portland	X	X	.	X	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K F E C	248	50	Portland	X	X	.	.	X	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	X	X	.	.	.	.	K O I N	319	1000	Portland	.	.	.	.	X	X	X	X	.	.	.	.
.	.	X	.	.	.	.	.	.	.	.	.	.	.	X	X	K F W V	212	50	Portland	X	X	X	X	X	X	X	X	X	X	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K O A C	283	500	Corvallis, Ore.	.	.	.	.	X	X	X	X	.	.	.	.
.	.	.	X	.	.	.	.	.	.	X	X	.	.	.	X	K J R	348	1000	Seattle	X	.	.	.	.	X	X	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K T C L	305	1000	Seattle	.	.	X	X	X	X	X	X	X	X	X	X
X	X	.	.	.	X	X	.	.	.	X	X	X	X	X	.	K F O A	454	1000	Seattle	X	.	X	X	X	X	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K F Q X	233	1000	Seattle	.	.	.	.	X	X	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K H Q	394	1000	Spokane	X	X	X	X	.	.	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K O W W	256	500	Walla Walla	.	.	X	X	X	X	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	W K S C	349	500	Pullman	.	.	.	X	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	C N R V	291	5000	Vancouver, B. C.	.	.	.	.	X	X	X	X	X	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	C K C D	410	2000	Vancouver	.	.	.	.	.	X	X	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	C F C N	440	3000	Calgary	.	.	.	.	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	C F A C	436	2000	Calgary	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	C F C A	356	1000	Toronto	.	.	.	.	.	.	.	.	X	X	X	.
X	.	X	.	X	.	.	.	.	.	.	.	.	.	.	.	K G U	270	500	Honolulu	.	.	.	X	X	X	.	.	.	.	.	.
.	X	X	X	.	.	.	.	X	X	X	.	.	.	X	X	W B A P	476	1000	Fort Worth	X	X	X	X	.	X	.	.	.	.	.	.
.	X	X	.	.	.	.	.	.	X	X	X	.	.	X	X	K O A	322	5000	Denver	X	X	X	X	X	X	.	.	.	.	.	.
X	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	K L Z	266	500	Denver	X	X	X	X	X	X	X	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K O B	348	1000	State Col., N. M.	.	.	X	X	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	X	X	X	X	.	.	K S L	300	1000	Salt Lake City	.	.	.	.	.	.	.	.	.	.	.	.
.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	K F W A	261	500	Ogden	.	.	X	X	.	.	X	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	W O A W	520	1000	Omaha	X	X	X	X	X	X	X	.	.	.	.	.
X	.	.	.	X	.	.	X	.	.	.	X	.	.	.	X	W O C	484	5000	Davenport	X	X	X	.	.	.	X	X	.	.	.	.
.	.	X	.	.	.	.	.	.	.	.	X	.	.	.	.	K F K X	288	5000	Hastings, Neb.	.	.	X	X	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	K Y W	535	3500	Chicago	X	X	X	X	X	X	X	X	.	.	.	.
.	.	.	.	.	.	X	X	X	X	X	X	.	.	X	X	K D K A	309	1000	Pittsburgh	X	X	X	X	X	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	W G Y	379	5000	Schenectady	X	X	X	X	X	.	.	.	.	.	.	.

SATURDAY TIME TABLE

ALL TIME TABLES ADJUSTED TO PACIFIC TIME
(X) Indicates Station Is On the Air

10-12 A.M.				12-2 P.M.				2-4 P.M.				4-6 P.M.				6-8 P.M.				8-10 P.M.				10-12 P.M.			
10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00	12 00-12 30	12 30- 1 00	1 00- 1 30	1 30- 2 00	2 00- 2 30	2 30- 3 00	3 00- 3 30	3 30- 4 00	4 00- 4 30	4 30- 5 00	5 00- 5 30	5 30- 6 00	6 00- 6 30	6 30- 7 00	7 00- 7 30	7 30- 8 00	8 00- 8 30	8 30- 9 00	9 00- 9 30	9 30-10 00	10 00-10 30	10 30-11 00	11 00-11 30	11 30-12 00
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	X	X	X	X	X	X	X	X	X
.	.	.	.	.	X	X	X	.	.	.	.	.	.	.	.	.	X	X	X	X	X	X	X	.	.	.	.
X	.	.	.	X	X	.	X	X	.	X	.	.	.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
.	X	X	X	X	.	.	.	.	.	.	X	X	.	.	.	.	.	.	X	X	X	X	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	X	X	X	X	X	X	X	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	X	X	X	X	X	X	.	.
.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	X	X	.	.	X	X	X	X	.	.	.	.
.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	.	X	X	.	.	X	X	X	X	X	X	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	X	.	.	.	.	.	.	.
.	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	X	.	.	.	X	.	.	.	.	.	.	.
.	.	.	X	X	X	X	X	.	X	X	.	.	X	X	.	X	X	X	X	X	X	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	X	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
X	X	X	.	X	X	X	X	X	X	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	X	X	X	.	.	X	X	X	X	X	X	.	.	X	X	X	X	X	X	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	X	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
X	X	X	.	.	X	X	.	.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.	X	X	X	X
.	.	.	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	X	X	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	X	X	.	.	.	.	.	.	.	.	.	.	X	X	X	X	X	X	X	X	X	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	.	.	.	.	.	X	.	.	.	X	X	X	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	X
X	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.	X	.	.	.	.	X	X	X	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	.	.	.	.	.	.
X	.	X	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
X	.	.	.	X	.	.	X	.	.	.	X	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	X	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	X	X	X	X	X	.	.	.	.	.	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.	X	X	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	X	X	X	X	X	X	X	X	X	X
.	.	.	.	.	.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
.	.	.	.	.	.	.	.	.	.	.	.	.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

CALL	Wave Length Meters	Power in Watts	STATION
KFI	467	4000	Los Angeles
KHJ	405	500	Los Angeles
KNX	337	500	Los Angeles
KFSG	275	500	Los Angeles
KNRC	208	250	Los Angeles
KFWB	252	500	Hollywood
KMTR	238	500	Hollywood
KFQZ	226	50	Hollywood
KPSN	315	1000	Pasadena
KFXB	202	500	Big Bear
KFWO	211	250	Catalina
KFON	233	500	Long Beach
KFVD	205	50	San Pedro
KFSD	246	1000	San Diego
KPO	428	1000	San Francisco
KLS	360	250	San Francisco
KFRC	268	50	San Francisco
KJBS	220	5	San Francisco
KFUS	256	50	Oakland
KTAB	303	1000	Oakland
KGO	361	4000	Oakland
KZM	240	100	Oakland
KLX	508	500	Oakland
KRE	256	100	Berkeley
KFBK	248	100	Sacramento
KFWH	254	100	Chico
KMJ	234	50	Fresno
KFOB	226	50	Burlingame
KGW	491	500	Portland
KFJR	263	50	Portland
KFEC	246	50	Portland
KFWV	212	50	Portland
KOIN	319	1000	Portland
KFOA	454	1000	Seattle
KTBL	305	1000	Seattle
KJR	384	1000	Seattle
KHQ	394	1000	Spokane
KOWW	256	500	Walla Walla
CFAC	436	2000	Calgary
CKCD	410	2000	Vancouver, B. C.
WBAP	476	1000	Fort Worth
WOAI	394	1500	San Antonio
WOC	484	5000	Davenport
WSMB	319	500	New Orleans
KOA	322	5000	Denver
KLZ	266	500	Denver
KFAU	280	750	Boise, Ida.
KSL	300	1000	Salt Lake City
KFWA	261	500	Ogden, Utah
WOAW	525	1000	Omaha
KFKX	288	5000	Hastings
WDAF	366	500	Kansas City
KSD	545	750	St. Louis
WLW	422	5000	Cincinnati
KYW	535	3500	Chicago
KDKA	309	1000	Pittsburgh
WGY	379	5000	Schenectady

Run Your Radio
FROM
Your House Current
WITH

PHILCO

"A" and "B" SOCKET POWER

SPECIAL
Insert for Radiola 28 Installed in Battery Compartment

New Low Price for Limited Time Only on

AB 460 . . . $52.50
Furnishes Both A and B Current

B 601 . . . . $35.00
Furnishes 135 Volts Hum-free B Current

SOLD ON TERMS
INSTALLED FREE

Ask Your Dealer
or

A. J. Tobey Co.
BATTERY SERVICE

1500 S. Hope St., Los Angeles WEstmore 4038

LOS ANGELES AND HOLLYWOOD DEALERS

ATWATER RADIO & ELEC. CO.
3208 Glendale Blvd.

CHAPMAN HOUSE SALES CO.
4377-79 So. Figueroa St.

DEAN K. BARRIS
3100 S. Vermont Ave.

BIRONG & BUSHARD
1717 W. Adams St.

CONSOLIDATED SERVICE
1117 West 24th St.

F & H RADIO & ELECTRIC SHOP
5033 York Blvd.

FRANK W. HASBROUCK
6211 S. Vermont

GAINADAY APPLIANCE CO.
3508 W. Washington St.

INTERPHONE ELECTRIC CO
5510 Monte Vista St.

MANCHESTER RADIO CO.
1522 E. Manchester Ave.

MOHAWK BATTERY & RADIO CO.
2115 Sunset Blvd.

NORTON & NORTON
1375 N. Broadway

NORTON & NORTON
2211 N. Broadway

POTTER RADIO SALES CO.
1817 W. 54th St.

RAITE PRODUCTS COMPANY
4502 Melrose Ave.

THAYER ELECTRIC CO.
2008 Whittier Blvd.

WEST STATES ELECTRIC CO.
2510 West Pico St.

WEST STATES ELECTRIC CO.
4751 South Broadway

Hollywood Dealers:

BARROWS & CONKWRIGHT
5545 Sunset Blvd.

DORAN'S ELECTRIC SHOP
8030 Santa Monica Blvd.

DORAN'S ELECTRIC SHOP
7515 Sunset Blvd.

H. D. HATFIELD & SON
1762 N. Vermont Ave.

OUR SC

ALHAMBRA, LeRoy G. Franklin
644 W. Main

ARTESIA, Wm. B. Hayes
325 N. Main St.

ATASCADERO, Newman T. Winter

BAKERSFIELD, W. E. McFaddin
2215 Chester Ave.

BREA, Bennett's Radio Shop
129 S. Pomona Ave.

BUELLTON, O. R. Skinner

BURBANK, Kendig Bros. Electric Shop
138 E. San Fernando Blvd.

CHINO, Woods Radio Company
413 Sixth St.

COMPTON, Model Electric Co.
138 E. Main St.

CORONA, N. H. Norton

COVINA, Harold R. Houser
115 College St.

CULVER CITY,
Culver City Radio & Elec. Co.
6715 Washington Blvd.

EAGLE ROCK, Roy J. Weaver
5112 Eagle Rock Blvd.

EL SEGUNDO, B. W. McAllister
110 Grand Ave.

EL MONTE—Roy J. Weaver, El Monte Hardware Co.

FILLMORE, Hallstead Elec. Co.

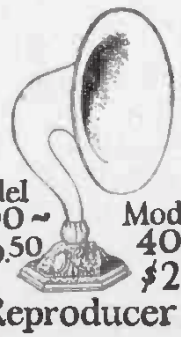
FULLERTON, R. S. Robinson
Spadra Road and Santa Fe

GARDENA, Don Spears
725 West 165th St.

GLENDALE, Willard Hellman
(Broadway Elec.), 202 E. Broadway

GLENDORA, James M. Reed

HUNTINGTON PARK,
H. L. (Radio) King,
116 E. Irvington St.



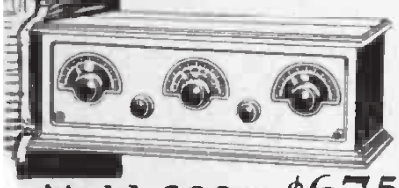
Model 400 ~ $26.50
Model 405 ~ $20.00
Reproducer ~

Stewart-Warner Pro
Wholesale Distributors
1366 South Figueroa S

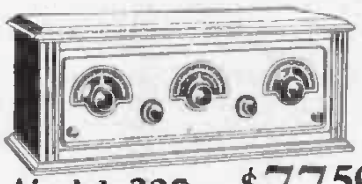
S-t-e-w-a-r-t-W-a-r-n-e-r
Spells Complete Radio Satisfaction

OUR FINANCE PLAN
Stewart-Warner dealers can sell you your radio on what we believe to be the most liberal finance plan ever devised. It is, as far as we know, the only plan that makes possible a discount for the buyer. See your dealer NOW.

The purchaser of Stewart-Warner Matched Unit Radio receives one hundred cents in performance and satisfaction for each dollar his set cost him. This is assured by the manufacturers' 20 years of experience in the manufacture of precision magnetic and electrical equipment . . . . by the use of the efficient U. S. Navy circuit in the receiving sets . . . . by the building of each unit of the complete Stewart-Warner line to work in full harmony with the others.



Model 300 ~ $67.50



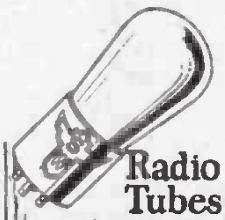
Model 325 ~ $77.50

Let one of the Stewart-Warner dealers listed here prove the above statements by a demonstration in your own home.

UTHERN CALIFORNIA DEALERS

INDEPENDENCE, Inyo Furniture & Hardware Co.
INGLEWOOD, R. D. Aylsworth 111 N. Market St.
LANCASTER, E. A. Kneip
LANKERSHIM, Kendig Bros. Electric Shop 5217 Lankershim Blvd.
LONG BEACH, Reeves & Snyder 1118 American Ave.
LOMPOC, Pendley Bros.
LONG BEACH, Seaside Elec. Co. 63 S. Magnolia St.
LYNWOOD, Lynwood Elec. Co. 204 N. Long Beach Blvd.
MONTEREY PARK, Monterey Park Music Co. 102 E. Garvey St.
NEWHALL, C. E. Graham
ORANGE, Roy Dee Larzes 143 N. Glassell St.
PASADENA, E. L. Goodson 650 Lincoln Ave.
PASADENA, Premier Radio 11 California St.
PASO ROBLES, R. C. Heaton
POMONA—Hiett & Miller, 183 E. 3rd St.
REDLANDS, J. L. Yount 106 W. Citrus Ave.
SAN BERNARDINO, Gurr, Smith & Gurr 439 Fourth St.
SAN FERNANDO, Willis Rowe
SAN GABRIEL, A. Burman 3560 East Huntington Dr.
SAN LUIS OBISPO, Cline Elec. Co. 986 Monterey St.
SANTA ANA, Shafer's Music Store 415 N. Main St.
SANTA BARBARA, Val Felger 732 State St.
SANTA MARIA, Ford & Smart 118 E. Main St.
SANTA MONICA, Crescent Tire & Supply Co., Bay and Main Sts.
SANTA PAULA, The Music Shop 104 W. Main St.
SATICOY, H. H. Wright 6th and D Sts.
SHAFTER, Henry C. Neufeld
UPLAND, Jay M. Ross
VENICE, R. W. Peters 1029 Washington Blvd.
VENTURA, Richardson Co. Main St. and Ventura Blvd.
WESTMINSTER, Martin Engel
WHITTIER, H. C. Oldham 128 S. Greenleaf
WILMINGTON, G. F. Clausing 716 W. Anaheim St.
ZELZAH, Knutsen Bros.
TONOPAH, NEVADA, Tonopah Electric Co.

ducts Service Station
Stewart-Warner Radio
treet ~ LOS ANGELES



Radio Tubes ~ Model S-W 501-A $2.00 each

K F I—Los Angeles, California—467 Meters

4000WATTS—640 KILOCYCLES
RADIO CENTRAL SUPER-STATION OF EARLE C. ANTHONY, INC.
1000 South Hope St. Phone TR. 5141. After 6 P. M., TR. 5147
Class "B" 5000-Watt Western Electric Station Operating on 4000 Watts
ROBERT HURD, Program Manager

DAILY EXCEPT SUNDAY—
6:00 p. m.—KFI Nightly Doings.
6:15 p. m.—KFI Radio Travel Guide.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
10:00 a. m.—Morning service under the L. A. Church Federation.
11:00 a. m.—Temple Baptist Church.
4:00 p. m.—Vesper Services, arranged by Federated Church Musicians.
6:30 p. m.—KFI Nightly Doings.
6:45 p. m.—Music Appreciation Chat and Father Ricard's Sun Spot.
7:00 p. m.—Zez Confrey's Orchestra.
8:00 p. m.—Aeolian Organ Recital, Dan L. MacFarland at the console.
9:00 p. m.—Lake Arrowhead Orchestra; Mert Denman and his uke.
10:00 p. m.—Packard Six Orchestra, direction of Bill Hennessy; Dolly MacDonald.

MONDAY, AUGUST 16—
11:10 to 11:30 a. m.—Agnes White presenting a talk for the Standard Nut Margarine Co.
5:30 p. m.—Norman Rathert and his Trojan Tooters.
6:30 p. m.—Wally Wallenius, tenor; Victor Trevice.
6:45 p. m.—George Wilder Cartwright, "Talks on the Constitution."
7:00 p. m.—Owen Fallon and his Californians; Jackie Lucas.
8:00 p. m.—Program arranged by Lou Parker.
9:00 p. m.—Program by Walter M. Murphy Motors Company, Los Angeles, and Stanley W. Smith, Inc., San Francisco, featuring Virginia Flohri, Robert Hurd, Gamut Male Quartet, Hollywood String Quartet, broadcast simultaneously by KFI, Los Angeles, and KPO, San Francisco.
10:00 p. m.—Program by Meiklejohn Bros.

TUESDAY, AUGUST 17—
5:30 p. m.—The Original Victorians Orchestra.
6:30 p. m.—The Original Victorians Orchestra.
6:45 p. m.—Dr. John T. Miller, "Human Nature Around the World."
7:00 p. m.—Virginia Ballroom Orchestra; Park Sisters.
8:00 p. m.—Screen Artists' Quartet; Robert Hurd, tenor.
9:00 p. m.—Truth Tyler Plock, pianist; Roy Bessler and Flo Ellsworth.
10:00 p. m.—Packard Radio Club.

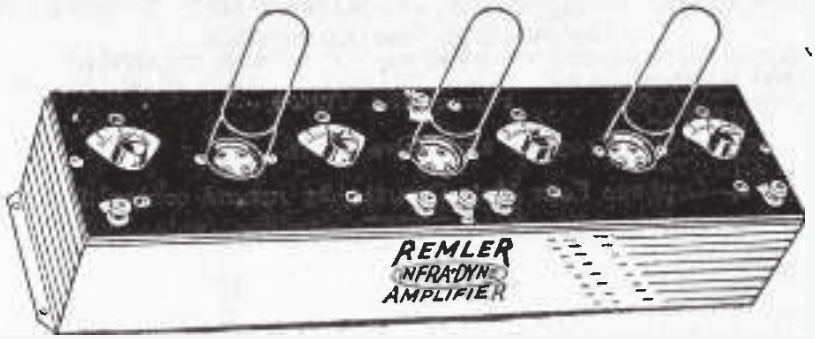
WEDNESDAY, AUGUST 18—
11:10 to 11:30 a. m.—Agnes White presenting a talk for the Standard Nut Margarine Co.
5:30 p. m.—Bob Bottger and his Venetians Dance Orchestra.
6:45 p. m.—E. C. D. Price, "Gossip."
7:00 p. m.—Westerland Trio.
7:30 p. m.—Nick Harris, Detective Stories: William MacDougall.
8:00 p. m.—Program by California Petroleum Corporation; Calpet Orchestra; Paul Roberts.
9:00 p. m.—Patrick-Marsh Orchestra; Betty Patrick, soloist.
10:00 p. m.—Program arranged by Charles Beauchamp.

THURSDAY, AUGUST 19—
5:30 p. m.—Wheeler's Hot Springs Orchestra.
6:30 p. m.—Minnie Petrie; Art Meyer.
6:45 p. m.—KFI Radiotorial Period.
7:00 p. m.—Radio Boys' Orchestra.
8:00 p. m.—Richard Sterling in the one-act play, "Nettie," by George Ade.
9:00 p. m.—Program of Hawaiian music arranged by Charles Dimond.
10:00 p. m.—Azure Music Club; Edna Cook and Billie Henderson.

FRIDAY, AUGUST 20—
11:10 to 11:30 a. m.—Agnes White presenting a talk for the Standard Nut Margarine Co.
5:30 p. m.—Drake's Orcehstra.
6:30 p. m.—Carol Maier, mezzo soprano; Garnet Davis, whistler.
6:45 p. m.—Burr McIntosh, "The Cheerful Philosopher."
7:00 p. m.—George Finney, baritone.
7:30 p. m.—Felipe Delgado: Media Hora Espanola.
8:00 p. m.—Aeolian Organ Recital, Dan L. MacFarland at the console.
9:00 p. m.—Popular program; Stan Larson's Forest Home Five; Al Caro and Dorothy Cleveland, soloists.
10:00 p. m.—Packard Ballad Hour. Gretchen Garrett, soprano; Joseph Taccati, baritone.

SATURDAY, AUGUST 21—
5:30 p. m.—Jack Smith and his Dance Orchestra, with Winnie Parker and Lois Whiteman.
6:30 p. m.—Jack Smith and his Dance Orchestra, with Winnie Parker and Lios Whiteman.
6:45 p. m.—KFI Radiotorial Period.
7:00 p. m.—Billy Cox and his orchestra; Paul Roberts, soliost.
8:00 p. m.—Angelus Quartet; Carrie Donaldson Kraft, soprano.
9:00 p. m.—Jewish Synagogue music service with Armin Rosenberg, Cantor and choir.
10:00 p. m.—Packard Radio Club.
11:00 p. m.—KFI Midnight Frolic. Carey Wilson, Master of Ceremonies.

Copyright, 1926, Earle C. Anthony, Inc.



REMLER INFRA-DYNE AMPLIFIER

Learn the Secret of New Methods of Amplification

Call at you radio dealer's for a special six-page, two-color folder which describes what the No. 700 Remler Infradyne Amplifier is and what it does.

Price $25.00 each

REMLER

GRAY and DANIELSON
Manufacturing Company
DIVISION OF R

260 First Street

Chicago San Francisco New York

K H J—Los Angeles, California—405.2 Meters

500 WATTS—740 KILOCYCLES

Times Bldg., First and Broadway, Los Angeles. Owned and operated by Los Angeles Times.
JOHN S. DAGGETT, Manager and Program Arranger. E. K. BARNES, Assistant Manager.
Phone MEt. 0700

DAILY EXCEPT SUNDAY—
12:30 to 1:30 p. m.—Studio Program and News Items.
DAILY EXCEPT MONDAY—
6:00 to 6:30 p. m.—Orpheus Four Male Quartet, by remote control from Biltmore Hotel.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
10:00 a. m.—Sermon from the studio of KHJ by Dr. H. C. Culbertson, pastor of Mesa Congregational Church.
10:30 a. m. to 12:30 p. m.—Morning services from the First Methodist Episcopal Church.
7:00 to 8:00 p. m.—Evening services from the First Methodist Episcopal Church.
8:00 to 10:00 p. m.—News items. Program presenting Frederick MacMurray, viola; Mr. and Mrs. Arthur Farwell in readings and musical numbers; Orpheus Four Male Quartet.

MONDAY, AUGUST 16—
Silent after 1:30 p. m.

TUESDAY, AUGUST 17—
6:30 to 7:30 p. m.—Children's program presenting Queen Titania and her Sandman; Charles Leslie Hill, 4-year-old reader, "Honey Boy;" Louis F. Klein, harmonica and auto harp; George Kerr, 12 years of age, mandolin, and Sylvia Cohan, 10-year-old pianist.
7:30 p. m.—Scripture reading.
7:40 p. m.—H. M. Robertson will talk on "Dogs."
8:00 to 10:00 p. m.—News items. Program presenting Stewart-Warner Quartet: Ethel Glasmann Clark, soprano; Mona Content, pianist, and others.
10:00 to 11:00 p. m.—An hour of dance music by the Los Angeles Railway Orchestra.

WEDNESDAY, AUGUST 18—
2:30 p. m.—Fred C. McNabb will give his weekly talk on "Gardens."
6:30 to 7:30 p. m.—Children's program, including Dick Winslow, screen juvenile reporter; Patricia R. Eccleston, "Little Daffodil;" Vivian Marple, "Blue Bell of KHJ;"
7:30 p. m.—Scripture reading
7:40 p. m.—Dr. Mars Baumgardt will lecture on "Astronomy."
8:00 to 10:00 p. m.—News items. De luxe program.
10:00 to 11:00 p. m.—Program of dance music by Jerry Grant and his orchestra.

THURSDAY, AUGUST 19—
6:30 to 7:30 p. m.—Children's program, featuring Margaret Smith, 16-year-old 'cellist; Betty Ruth Vincent, 4-year-old singer; Arthur L. Sisson, 5-year-old reader; Dickie Brandon, screen juvenile, and others.
7:30 p. m.—Scripture reading.
7:40 p. m.—Dr. Philip Lovell will talk on "Care of the Body."
8:00 to 10:00 p. m.—News items. Program presenting Zoellner Quartet.
10:00 to 11:00 p. m.—Dance music by Al Johnson's Marigold Gardens Orchestra.

FRIDAY, AUGUST 20—
6:30 to 7:30 p. m.—Children's program, presenting Roberta Bush, "The Firefly;" Marguerite Bringham, "Nightingale of KHJ;" Catherine Cotter, "Sweetheart of Radioland;" Billy Lord, "Police Comrade;" Margaret Bond, 12-year-old violinist, and other juveniles.
7:30 p. m.—Scripture reading.
8:00 to 10:00 p. m.—News items. De luxe program.

SATURDAY, AUGUST 21—
1:30 p. m.—Art Pabst, "Pacific Electric Art."
6:30 to 7:30 p. m.—Children's program, including Nancy Nolen, 11-year-old singer, pupil of Winifred Pollard; Nona Clapp, "Sunshine Fairy;" Baby Blossom LeMori, "Baby Blossom of Radioland;" Rosetta Lewin, 4½-year-old reader.
7:30 p. m.—Scripture reading.
8:00 to 10:00 p. m.—News items. De luxe program, including Mr. and Mrs. Benjamin F. Sears, old-time fiddler and pianist; Karl Brandenburg, tenor; the Los Angeles Railway Hawaiian Quintet, and others.

ATTENTION, RADIO SET OWNERS

We are making a specialty of sharpening the tuning of any Radio set. Two-tube Harkness changed to three tubes. We guarantee perfect tune out of local stations.

We also make special installation on Atwater Kent sets to play Pacific Coast stations while locals are operating.

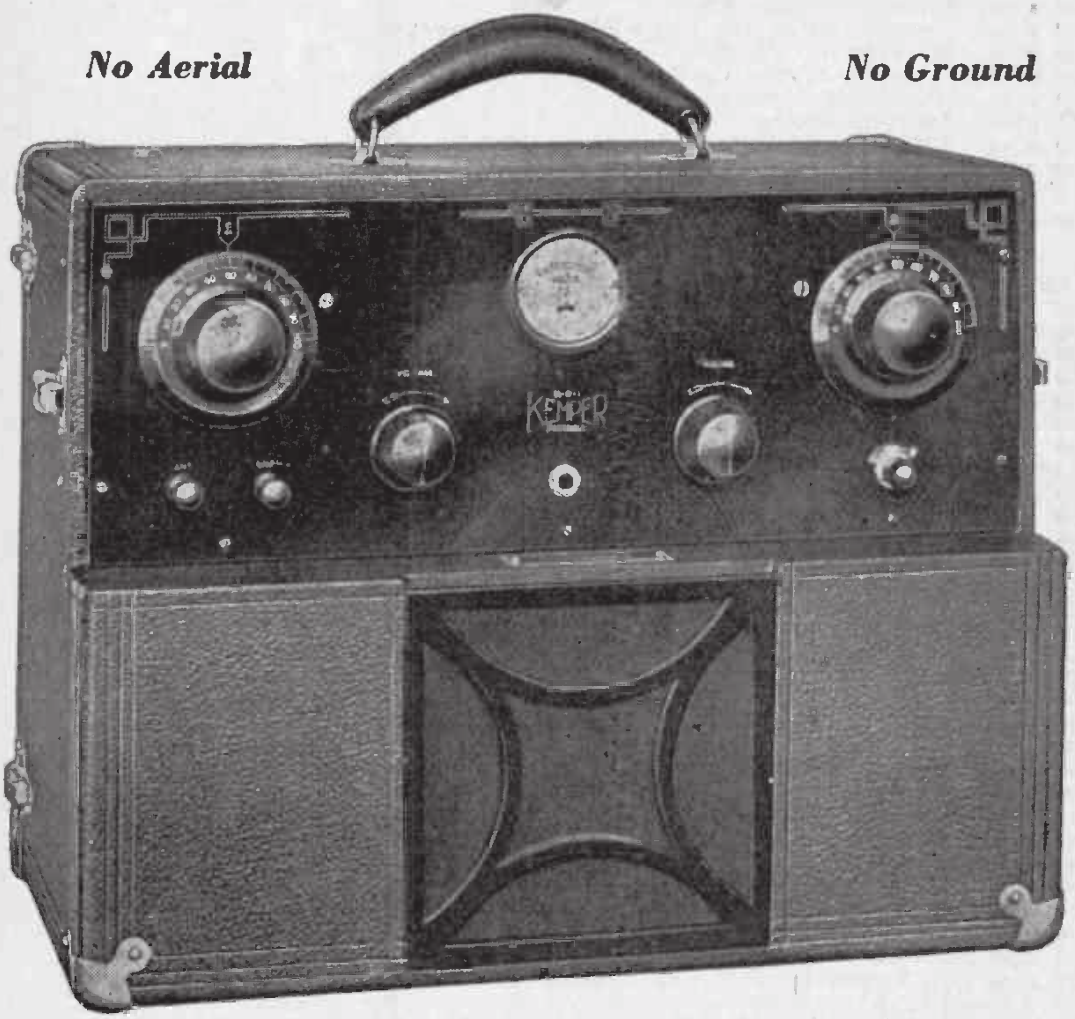
Open Model A. K. cut down to 200 meters, to play low wave stations.

STANDARD RADIO CO.

417 W. Pico St., Los Angeles Tel. TUcker 2433

The Sensation of the Pacific Coast

No Aerial *No Ground*



Kemper Portable Radio Set

Hundreds of these ideal Portable sets in use in California Homes.

The sweetest, simplest set we've ever tuned. Light weight and easily handled. Can be taken anywhere.

Sold direct from factory to you. The lowest priced set of its kind on the market.

A postal card or telephone call will bring demonstrations in your home. We promise utmost courtesy and appreciation of an opportunity to show you.

SALES SHOP IN BILTMORE HOTEL ARCADE

Cash or Convenient Terms ***Salesmen Wanted***

KEMPER RADIO LABORATORY

1236 Santee St. LOS ANGELES WEstmore 2504

Distributors for Northern California

THOMSON & KING

324 Mission Street, San Francisco Phone Davenport 1442

K N X—Hollywood, California—337 Meters

500 WATTS—890 KILOCYCLES
LOS ANGELES EVENING EXPRESS

Paul G. Hoffman's Studebaker Building, 6116 Hollywood Blvd., Hollywood . Phone HO. 4603
NAYLOR ROGERS, Manager and Program Director **GLEN RICE, Asst. Manager**

DAILY EXCEPT SUNDAY—
7:30 a. m.—KNX Morning Gym, directed by J. C. Casey, Physiotherapist.
8:00 a. m.—Inspirational talk and morning prayer.
8:55 a. m.—Time signals from Washington, D. C., followed by birthday notices.
9:00 a. m.—Radio Shopping News.
10:00 a. m.—Town Crier of the Day's Morning Message.
10:30 a. m.—Kate Brew Vaughn,
12:00 m.—Leighton's Arcade Cafeteria Orchestra.
1:30 p. m.—The Book Worm.
4:55 p. m.—Market reports.
5:30 p. m.—Leighton's Arcade Cafeteria Orchestra.
6:00 p. m.—The Town Tattler.
6:15 p. m.—W. F. Alder Travelogue.
6:30 p. m.—Atwater Kent Orchestra, courtesy Ray Thomas, Inc.,

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
10:00 a. m.—First Presbyterian Church of Hollywood, Rev. Stewart P. MacLennan.
2:00 to 4:00 p. m.—City Park Board musical program.
4:30 p. m.—Half hour of Cinema Chit-chat by Helene Sullivan.
6:30 p. m.—First Unitarian Church.
7:00 p. m.—Circle Theater Concert Orchestra, Carli D. Elinor, director.
8:00 p. m.—First Presbyterian Church of Hollywood, Rev. Stewart P. MacLennan.
9:00 p. m.—Feature program.

MONDAY, AUGUST 16—
3:00 p. m.—Little Jean and the Town Crier of the Day.
4:30 p. m.—Blue Monday Frolic—Howard Clark.
7:00 p. m.—MusicArts Studio Building courtesy program.
7:30 p. m.—Overell Furniture Company courtesy program.
8:00 p. m.—L. W. Stockwell Company courtesy program.
9:00 p. m.—Julian Petroleum Corporation courtesy program.
10:00 p. m.—M. Weinstein & Company courtesy program.
11:00 p. m.—Hotel Ambassador; Ray West's Cocoanut Grove Orchestra.

TUESDAY, AUGUST 17—
2:00 p. m.—Mothers' Hour; an hour of music and educational talks.
4:00 p. m.—Radio Matinee with Louise Howatt, contratlo.
7:00 p. m.—John A. Vaughn Corp. courtesy program.
8:00 p. m.—Builders' Finance Association courtesy program.
9:00 p. m.—Western Auto Supply Co. courtesy program.
10:00 p. m.—Edgewater Club Orchestra by remote control from Santa Monica.

WEDNESDAY, AUGUST 18—
2:00 p. m.—Walter Butterly, baritone, accompanied by Herb Henning.
3:00 p. m.—Musical readings by Claire and Pierre Mellonino.
4:00 p. m.—Talk on care of children by Dr. Wayne B. Burr.
7:00 p. m.—Feature program.
8:00 p. m.—Stewart-Warner Radio Dealers of So. California courtesy program.
9:00 p. m.—El Sereno Country Club musical program.
10:00 p. m.—Edgewater Club Orchestra by remote control from Santa Monica.
11:00 p. m.—Hotel Ambassador; Ray West's Cocoanut Grove Orchestra.

THURSDAY, AUGUST 19—
2:00 p. m.—Paul D. Hugon, handwriting expert.
2:30 p. m.—Reading by Edward Murphey.
7:00 p. m.—Carthy Circle Theater organ recital by Fred Scholl.
8:00 p. m.—Rigali & Veselich courtesy program.
9:00 to 10:00 p. m.—Feature program.
10:00 p. m.—Edgewater Club Orchestra by remote control from Santa Monica.
11:00 p. m.—Hotel Ambassador; Ray West's Cocoanut Grove Orchestra.

FRIDAY, AUGUST 20—
10:30 a. m.—Talk on "Proper Foods and How to Prepare Them," a Virginia Tappan talk.
2:00 p. m.—L. A. District Federation of Women's Clubs musical program.
4:00 p. m.—Boy Scouts' musical program.
7:00 p. m.—Feature program.
8:00 p. m.—Frank Meline Company courtesy program.
9:00 p. m.—Davis Perfection Bread Co. courtesy program.
10:00 p. m.—Dickinson & Gillespie, developers of Griffith Park Manor, courtesy program.
11:00 p. m.—Hotel Ambassador; Ray West's Cocoanut Grove Orchestra.

SATURDAY, AUGUST 21—
3:00 p. m.—Town Crier of the Day and his pals.
4:45 p. m.—Joyce Coad giving a resume of her screen work.
7:00 p. m.—Stories of insect life by Harry W. McSpadden.
7:15 p. m.—Announcement of Sunday services of the leading Los Angeles churches.
7:30 p. m.—Dearden's Furniture Co. courtesy program.
8:00 p. m.—Broadway Department Store courtesy program.
9:00 p. m.—Rondith Corporation courtesy program.
10:00 p. m.—Hotel Ambassador; Ray West's Cocoanut Grove Orchestra.
11:00 p. m.—Saturday night frolic by remote control from Edgewater Club.

ATWATER KENT RADIO

Ray Thomas, Southern California distributor of Atwater Kent radios and loud speakers, stands personally behind every item of this famous line.

He knows that Atwater Kent supremacy in the radio field has been won by sheer merit, and takes pleasure in adding his personal guarantee to that of Mr. Atwater Kent.

Tune in KNX

Tune in KNX any evening of the week (except Sunday), between 6:30 and 7:00, at which time the Atwater Kent Radio Orchestra will entertain you with the very finest of concert programs rendered by an orchestra, every member of which is an artist.

RAY THOMAS, INC.

Atwater Kent Distributors

1248 South Hope St. TRinity 3921

Los Angeles

K F W B—Hollywood, California—252 Meters

500 WATTS—1190 KILOCYCLES
WARNER BROS. MOTION PICTURE STUDIOS
Warner Bros. West Coast Studio—5842 Sunset Boulevard
CHARLIE WELLMAN, Manager and Announcer. Phone GL. 9461

DAILY EXCEPT SUNDAY—
6:00 to 7:00 p. m.—Pontiac Six Dinner Hour.
8:00 to 8:10 p. m.—News items.
10:10 to 11:00 p. m.—Warner Bros. Frolic.

MONDAY, TUESDAY AND WEDNESDAY—
4:45 to 5:00 p. m.—Agnes May Allen on Home Economics.
5:00 to 6:00 p. m.—Children's Hour by Big Brother.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
9:00 to 11:00 p. m.—June Parker, Albert Keglovich, Julius H. Phillips, Art Pabst and his banjo, Peggy Mathews, Warner Bros. Syncopators.
News items at 9:00 and 10:00 p. m.

MONDAY, AUGUST 16—
7:00 to 8:00 p. m.—Program courtesy Dr. Ralph Mitchell and the Associated Dentists, featuring Bill Blake, June Parker, Friendly Dentists Orchestra.
8:00 to 8:10 p. m.—News items.
8:10 to 9:10 p. m.—Program presented courtesy The Sealy Company, featuring Raquel Nieto, Edward Novis, Art Pabst and his banjo, The Sealy Tutless Mattress Orchestra.
9:10 to 10:10 p. m.—Program courtesy The American Dye Works, featuring Dan Gridley, Esther White, Ashley Sisters, The American Dye Works Orchestra.

TUESDAY, AUGUST 17—
8:00 to 8:10 p. m.—News items.
8:10 to 9:10 p. m.—Bill Blake, Esther White, Bill Hatch's Orchestra.
9:10 to 10:10 p. m.—Esther White, Bill Blake, Art Pabst and his banjo, Bill Hatch and his orchestra.

WEDNESDAY, AUGUST 18—
7:00 to 8:00 p. m.—Program courtesy Corduroy Tire Stores, Inc., featuring Julius H. Phillips, Esther White, The Corduroy Cord Tire Orchestra.
8:00 to 8:10 p. m.—News items.
8:10 to 9:10 p. m.—Program courtesy the Velvetone Corp., featuring the Dare Sisters, Peeggy Mathews, Dan Gridley, Velvetone Orchestra.
9:10 to 10:10 p. m.—Edward Novis, Esther White, Ashley Sisters, Irma and Thelma; Bill Hatch and his orchestra.

THURSDAY, AUGUST 19—
8:10 to 9:10 p. m.—Program presented courtesy McGavin Bros., featuring Edward Novis, Ann Grey, The McGavin Bros.
9:10 to 10:10 p. m.—Program presented courtesy Chapman Ice Cream Company, featuring Raquel Nieto, Peggy Mathews, The Chapman Trio, The Chapman Ice Cream Orchestra.

FRIDAY, AUGUST 20—
8:10 to 9:10 p. m.—Program courtesy Bert Farrar, Inc., featuring Raquel Nieto, Julius H. Phillips, Ray Kellogg and Bill Hatch, violin and piano; The Chevy Chase Orchestra.
9:10 to 10:10 p. m.—June Parker, Julius H. Phillips, Bill Hatch's Orchestra.

SATURDAY, AUGUST 21—
8:00 to 9:00 p. m.—Dan Gridley, Ann Grey, Ashley Sisters, Bill Hatch and his orchestra.
9:00 to 10:00 p. m.—Esther White, Bill Hatch and his orchestra, Julius H. Phillips.

See your favorite announcer in next week's issue.

HORNS
FOR
PORTABLES
CABINETS
CONSOLES

Wonderful Tone; no square corners to cause that hollow sound like "tootin'" down a barrel.

COMPARISON INVITED
HORNS

Number—Size		Tone Travel
100—6" Diam., 6" Deep		13"
200— 5"x8" / 8" Diam.	8" deep	18"
300—10" Diam., 9½" Deep		23"
400— 8"x12" / 11½" Diam.	11½" deep	35"

UNITS
We Represent
Holliday Radio Co., Inc.

Manufacturers of the best Commercial Unit on the market. Will take the power tube without distortion. Fully Guaranteed.

We Will Out-Demonstrate Any Horn Made, Regardless of Its Cost or What Material Is Used in Its Manufacture.

M. J. CARLS 1929 So. Los Angeles St. Los Angeles

Operating P. O. Substation No. 66

SPECIAL

The New Radiola 20 Console, Built-in Cone Speaker, Operates entirely from your light socket. Come in for a Demonstration.

Majestic Raytheon "B" Eliminators
$35 to $45

Handles from 1 to 14 Tubes, Three Voltages, 2 Variable from One Volt to 225 Volts.

Keep Your Set at Its Highest Efficiency. It Is the Only Way You Can Really Enjoy Radio

Use a Trickle Charger

ELKON TUNGAR
HANDY VESTA

Burgess and Everready "A," "B" and "C" Batteries

Tubes Rejuvenated Free of Charge

OPEN EVENING

L. A. DUNCAN

RADIO ELECTRICIANS

2889-99 West Pico, Los Angeles **EMpire 1141**
(Corner Pico and Kingsley)

K F S G—Los Angeles, California—275.1 Meters

500 WATTS—1090 KILOCYCLES
ANGELUS TEMPLE, ECHO PARK. Phone DR. 2560
AIMEE SEMPLE McPHERSON, FOUNDER, PRESIDENT
ESSIE BINKLEY, Program Manager **ESTHER FRICKE GREEN, Organist**
GLADWYN N. NICHOLS, Musical Director and Announcer

DAILY EXCEPT SUNDAY AND MONDAY—
10:30 to 11:30 a. m.—Sunshine Hour.
11:30 a. m. to 12:30 p. m.—Noonday Musical.

DAILY EXCEPT SUNDAY, WEDNESDAY AND SATURDAY—
2:30 to 3:30 p. m.—Gray Studio program.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
10:30 a. m. to 12:30 p. m.—Regular morning worship, Temple Auditorium, by Aimee Semple McPherson. Charlotte Tyson Foljambe, soprano. Temple Choir. Quartets and solos. Angelus Temple organ and chimes played by Esther Fricke Greene.
2:30 to 4:30 p. m.—Afternoon dispensation service and message by Aimee Semple McPherson.
6:45 to 8:00 p. m.—Musical Hour. Temple band and choir directed by Gladwyn N. Nichols.
8:00 to 9:45 p. m.—Revival service by Aimee Semple McPherson, assisted by the 22-year-old Canadian Evangelist, A. Watson Argue.
10:00 to 11:00 p. m.—Music Lovers' Hour. Organ recital by Esther Friscke Greene.

TUESDAY, AUGUST 17—
3:30 to 4:30 p. m.—Vesper Hour. Organ recital by B. Earnest Ballard.
6:30 to 7:30 p. m.—Angelus Hour. Bible School band and soloists.
7:30 to 9:30 p. m.—Services by Student Evangelists.

WEDNESDAY, AUGUST 18—
2:30 to 5:30 p. m.—Divine Healing service by Aimee Semple McPherson and Mother Kennedy. Fanny Ashby Leen, soprano. Ladies' chorus.
6:30 to 7:30 p. m.—Angelus Hour. Organ recital by B. Earnest Ballard.

THURSDAY, AUGUST 19—
3:30 to 4:30 p. m.—Vesper service. Organ recital by B. Earnest Ballard.
7:30 to 9:15 p. m.—Regular Water Baptismal service by Aimee Semple McPherson. M. Daisy Thompson, song writer and composer, soloist.
9:15 to 10:00 p. m.—Gray Studio program arranged by John Kennedy.
10:00 to 11:00 p. m.—Organ recital by Esther Fricke Greene, assisted by Kathryn Thompson and Lewis D'Ipollitto, saxophone duets and solos.

FRIDAY, AUGUST 20—
3:30 to 4:30 p. m.—Vesper Hour. Organ recital by Esther Friscke Greene.
7:30 to 9:30 p. m.—Crusaders' Rally by Esther Fricke Greene.

SATURDAY, AUGUST 21—
3:30 to 4:30 p. m.—Children's Orchestra, directed by Helen McNaughton, featuring 5-yaer-old Doris Simmons; Freddy Thea, 11-years-old violinist, and Richard Kelly, boy pianist. Genevieve Wagner, soprano. Alice Frazer soprano and pianist.
7:30 to 9:30 p. m.—Divine Healing service by Aimee Semple McPherson and Mother Kennedy.

K T B I—Los Angeles, California—294 Meters

750 WATTS—1020 KILOCYCLES
BIBLE INSTITUTE OF LOS ANGELES
MR. M. E. CARRIER, Manager. Phone ME. 6701. PROF. H. G. TOVEY, Director of Programs

DAILY EXCEPT SUNDAY—
8:30 to 9:00 a. m.—Devotional Hour.
2:00 to 3:00 p. m.—Inspirational Hour.

DAILY EXCEPT FRIDAY AND SUNDAY—
7:15 to 8:00 p. m.—Aunt Martha's Children's Hour.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
10:00 a. m. to 12:30 p. m.—Regular service of the Church of the Open Door. Sermon by John M. McInnis, D.D.
6:00 to 7:00 p. m.—Radio Vesper service. Inspirational sermon by Rev. Albert S. Reitz.
7:15 to 9:30 p. m.—Regular evening service of the Church of the Open Door. Sermon by John M. McInnis, D.D.

MONDAY, AUGUST 16—
8:00 to 9:00 p. m.—Musical program directed by Prof. Rudolph J. Polak, pianist-composer.

TUESDAY, AUGUST 17—
8:00 to 9:00 p. m.—Mrs. Alma K. Moss will direct a musical program.

WEDNESDAY, AUGUST 18—
8:00 to 9:00 p. m.—Musical program.

THURSDAY, AUGUST 19—
8:00 to 9:00 p. m.—Musical program under the direction of Miss Lois Kimball, soprano.

FRIDAY, AUGUST 20—
7:00 to 8:00 p. m.—Exposition of International Sunday School lesson by Rev. John A. Hubbard.
8:00 to 9:00 p. m.—Musical program arranged by Philip C. Brown, tenor, director of Trinity Lutheran Choir, Long Beach.

$50 to $250 a week IN WORK THAT IS ALMOST ROMANCE

Be a Radio Expert

Get into the great new Big-Pay Industry, Radio. If you're earning a penny less than $50 a week, clip coupon now. Send for Amazing Free Book. Be a Radio Expert, and draw down easy money for the easiest and most fascinating work in the world. Positions everywhere. Thoroughly trained men are in big demand. Need for Radio Experts in every community. Short hours. BIG PAY. Free book gives all the facts. Astonishing opportunities—thousands of them. Every day N. R. I. trained men are taking good places in the Radio field. Free book tells all about their success. Send for it now!

PROOF

"Accepted a position with Chicago Daily News--Station WMAQ. My income practically doubled, thanks to your fine course." Keith Kimball, Chicago.

"Just been made sales Manager of this Radio concern—a big raise in pay. Regret I did not take course sooner." R. E. Jones, Bay City.

Learn Quickly and Easily AT HOME

Master Radio Engineers will show you how to qualify quickly and easily at home, for Radio's fine jobs. We guarantee to train you successfully. Lack of experience no drawback—common schooling all you need. Our tested, clear methods make it easy for you. Send coupon now for free proof.

Instruments Given with Course

All instruments shown here and many others given to students for practice work while learning. Receiving sets, from simplest kind to thousand mile receiver. An UNEQUALLED OFFER. Many other big features for limited time only.

Famous Training That "Pays for Itself"

Spare time earnings are easy in Radio. Increase your income almost from the start through practical knowledge we give you. This is the famous practical training that pays its own way.

Get this Amazing Book

Most amazing book on Radio ever written — full, interesting facts about this great field and how we prepare you and help you start. You can do what others have done. GET THIS BOOK.

You get all of these

Send Coupon

offer, including all instruments—Send coupon today for special limited you'll get full particulars by return mail.

Radio Needs Trained Men

National Radio Institute

Dept. Gv-1,
Washington, D. C.

LARGEST RADIO SCHOOL IN THE WORLD

ORIGINATORS OF RADIO HOME-STUDY TRAINING

MAIL THIS NOW

NATIONAL RADIO INSTITUTE,
Dept. Gv-1, Washington, D. C.

Without obligating me in any way, send me your free book, "Rich Rewards in Radio," and all information about your practical, home-study Radio course.

Name.....

Address.....

K M T R—Hollywood, California—238 Meters

500 WATTS—1260 KILOCYCLES
ECHOPHONE RADIO MFG. CO.
1025 North Highland Avenue—Telephone HOlly 3026
CHARLES W. HAMP, Announcer **OLIVER S. GARRETSON, Technical Engineer**
Portable Broadcast Station 6XBA—FREEMAN LANG, Field Engineer

DAILY EXCEPT SUNDAY—
6:00 p. m.—KMTR Radio Press Agent Hour.
DAILY EXCEPT SATURDAY AND SUNDAY—
5:00 p. m.—Home Hour.
DAILY EXCEPT FRIDAY—
8:00 to 9:00 p. m.—KMTR Concert Orchestra.
TUESDAY AND THURSDAY—
9:00 to 10:00 p. m.—Miller's Cafe Lafayette.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
7:00 p. m.—Miller's Cafe Lafayette Concert Orchestra.
8:00 to 10:00 p. m.—Presenting the KMTR Concert Orchestra
MONDAY, AUGUST 16—
7:00 p. m.—Radio Spanish lesson.
7:30 p. m.—Safeway Stores, Inc., musical program.
8:30 to 9:00 p. m.—Los Angeles Y. M. C. A. program.
9:00 p. m.—Presenting the KMTR Concert Orchestra.
TUESDAY, AUGUST 17—
3:00 p. m.—Rev. S. J. Skevington, pastor of Hollywood Baptist Church.
7:00 p. m.—E. P. Barclay, African explorer and diamond expert.
7:30 p. m.—Wilshire's Ionaco lectures.
WEDNESDAY, AUGUST 18—
10:00 a. m.—Rev. S. J. Mathison, Hollywood Christian Church.
7:00 p. m.—Radio Spanish Lesson.
7:30 p. m.—Feature musical program.
7:50 p. m.—Eye-o-logue by Dr. Herbert S. Marshutz.
9:00 p. m.—Dance Orchestra.
THURSDAY, AUGUST 19—
10:30 a. m.—Willsie Martin, D.D., minister of First Methodist Church, Hollwyood.
7:00 to 8:00 p. m.—Mme. Alene's "Fashion Talks."
FRIDAY, AUGUST 20—
7:00 p. m.—Gaylord Wilshire Lectures.
7:30 p. m.—Prof. Alfred Cookman, president of the Los Angeles Nature Club.
8:00 p. m.—Producers' Direct Market, "Little Gem" program.
8:30 p. m.—Lenore Duncan's Ballad Ensemble.
9:30 p. m.—Le Grand Trio.
SATURDAY, AUGUST 21—
1:15 p. m.—"Safety First" Talk by Traffic Officer Earle H. Cooper of the L. A. Police Dept.
7:00 p. m.—Special Musical Program.
9:00 p. m.—Dance Orchestra.

K N R C—Los Angeles, California—208 Meters

500 WATTS CAPACITY
KIERULFF & RAVENSCROFT COMPANY
Corner Seventeenth and Los Angeles Streets. Phone WEstmore 1319
TOM MITCHELL, Manager and Announcer **C. B. JUNEAU, Technician**

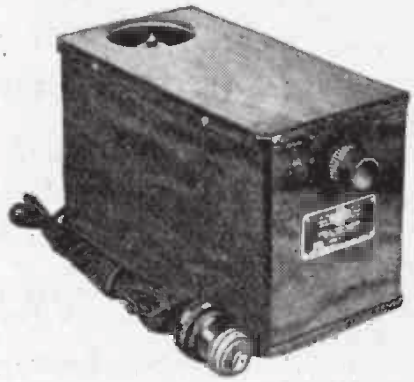
WEEK COMMENCING MONDAY, AUGUST 16, 1926

MONDAY, AUGUST 16—
1:00 to 3:00 p. m.—KNRC Blue Monday Musicale; Cliff Eddie, Tom Mitchell,
8:00 to 9:00 p. m.—K. & R. Courtesy Concert: Chas. Rumsey, Anita Holt,
9:00 to 10:00 p. m.—Novelty Dance Hour: Jack Smith Orchestra.
TUESDAY, AUGUST 17—
7:00 to 8:00 p. m.—Melody Four, Polly Grant Hall, Lou Parker and others.
8:00 to 9:00 p. m.—Novelty Program; Fred Till, Emmert Lippincott, Fred Bruley and others.
9:00 to 10:00 p. m.—Popular Dance Hour; Johnny Turk's Melody Boys.
WEDNESDAY, AUGUST 18—
7:00 to 8:00 p. m.—L. A. County Sheriff's hour, entertainers by Moseby.
8:00 to 9:00 p. m.—Novelty Four, One-String Danny, Banjo Slim, Jock McGilp,
9:00 to 9:30 p. m.—Employees of L. A. Bureau of Light and Power.
9:30 to 10:30 p. m.—K. & R. Courtesy Dance Hour; Pope's Californians
THURSDAY, AUGUST 19—
1:00 to 3:00 p. m.—Cliff Eddie's Vest Pocket Edition.
7:00 to 8:00 p. m.—L. A. Police and Fire Dept .program.
8:00 to 9:00 p. m.—Moseby's Dixieland Blue Blowers from Solomon's.
9:00 to 10:00 p. m.—K. & R. Courtesy program; Helen Boyd, Ray Winter,
FRIDAY, AUGUST 20—
8:00 to 9:00 p. m.—Novelty Hour: Fred Rogers Trio,
9:00 to 10:00 p. m.—Jack Boaz, hunting and fishing scout; L. A. Railway Orchestra;
SATURDAY, AUGUST 21—
8:00 to 9:00 p. m.—K. & R. Courtesy Concert, featuring Paulina Taska,
9:00 to ???—Weekly meeting of the K. R. B.'s. A Bunch of Bugs,

Webster Super-B

New - Different - Better

Size 5¼" High,
4⅝" Wide,
10" Long Over All



More than a substitute---

It Improves Reception!

Whatever your set, whatever your present results, the Webster SUPER-B improves your reception. It is not just another substitute for B batteries, but is better than B batteries.

Using the new Raytheon tube, the Webster SUPER-B gives you power to spare, permanently. It is as dependable as your electric light,—never diminishes, never fluctuates. Therein lies the secret of the matchless tone quality and increased volume obtained. It eliminates forever the noise of run-down B batteries and the bother and expense of battery replacement.

The Webster SUPER-B runs any tube set, from 100-125 volts, 50-60 cycle alternating current light socket. Adjustable for any voltage requirement. One of the features is the provision made to handle the new power tubes, with a voltage range of 135 to 150 volts, independently of the regular radio frequency and audio frequency stage requirements.

The Webster SUPER-B saves money, too. It has nothing to wear out, to burn out, to spill out, or to replace. It is permanent. Its operating cost is less than one-tenth of a cent per hour,—many, many times cheaper than B batteries.

The Webster SUPER-B is handsomely finished in grained walnut enamel. Everyone will admire its handsome appearance, and the way it harmonizes with the most distinguished surroundings.

Price Complete, with Raytheon Tube (West of Rockies) . . $50.00

Distributed by

Leo J. Meyberg Company

SAN FRANCISCO
973 Mission St.

OAKLAND
273 Twelfth St.

LOS ANGELES
1022 So. Wall St.

Manufacturers

THE WEBSTER COMPANY

3504 W. Lake St. (Dept. A), Chicago, Ill.

K F Q Z—Hollywood, California—226 Meters

1641 North Argyle Ave., Hollywood, California GLadstone 3197; GLadstone 3196
DAVE WARD, Announcer. FRANK BARRY, Prog. Director. L. E. TAFT, Tech. Engr.

DAILY EXCEPT SUNDAY—
12 m. to 1:00 p. m.—L. A. Merchants' & Manufacturers' Hour, with the Office Boy, Hazel McCauley and others.
6:00 to 7:00 p. m.—Chico De Verdi's California Russian Trio, with soloists.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
8:00 to 9:00 p. m.—Classical hour, with Douglas Hodson, Bernice Bannester, Mabel Oakes and La Mont Stetzer.
9:00 to 11:00 p. m.—Banjo Si and his Melody Boys, Charlie Dimond's Hawaiian Trio, and others.
11:00 p. m. to 12 m.—Old-Timers in Old-Time Melodies.

MONDAY, AUGUST 16—
7:30 to 8:30 p. m.—Stew Aspen's Mt. Wilson Five Dance Orchestra.
8:30 to 9:00 p. m.—Endo Laboratories courtesy program.
9:00 to 10:00 p. m.—Program arranged by Myra Belle Vivkers.
10:00 to 11:00 p. m.—Jack Lawton and his Southern Serenaders.

TUESDAY, AUGUST 17—
8:00 to 9:00 p. m.—Ford Dealers courtesy program.
9:00 to 10:00 p. m.—Ballad Hour, with Joseph Taccati, Mildred Masser, Phil Neeley and Helen Riley Cloyd.
10:00 to 11:00 p. m.—Ken Burzell and the Beach Club Orchestra.

WEDNESDAY, AUGUST 18—
8:00 to 9:00 p. m.—Stew Aspen and his Imperial Six Dance Orchetsra.
9:00 to 10:00 p. m.—Sol Hoopli and his Hawaiian Trio, Rita Devore and Howard Kerr.
10:00 to 11:00 p. m.—Jack Smith's Dance Orchestra, Fred Till and Dora Leonard.

THURSDAY, AUGUST 19—
3:30 to 4:30 p. m.—Tryouts (not broadcast).
8:00 to 9:00 p. m.—Billie Lee, Geraldine Clark, Louis Brattan, Bob Swan and Mr. and Mrs. Henry Silva.
9:00 to 10:00 p. m.—Program arranged by C. Harold Ramey, with his Haromny Hounds, the Sunset Collegians, Billie Henderson, and others.
10:00 to 11:00 p. m.—Charlie Cole, Eugenia Whisenant and Charles Cary Rumsey.

FRIDAY, AUGUST 20—
8:00 to 9:00 p. m.—Program arranged by Selwyn Harris.
9:00 to 10:00 p. m.—Germain's Ballroom Orchestra and Jim McCreary.
10:00 to 11:00 p. m.—KFQZ Varieties.

SATURDAY, AUGUST 21—
8:00 to 9:00 p. m.—Program arranged by Billy Hall, with Polly Grant Hall, Dick Powers and Lou Parker.
9:00 to 10:00 p. m.—George O'Hara, Ruth Davis and Adie Lucien.
10:00 to 11:00 p. m.—Los Angeles Railway Dance Orchestra.

TECHNICAL LABORATORY
OF
N. E. BROWN, I. R. E., A. I. E. E., A. S. M. E.
Specializes in

Instrument design, construction, repair and calibration. Brown manual and strictly automatic battery charging equipment. Current supply equipment. Radio transmitting and receiving equipment of all kinds built, repaired and adjusted. High quality microphone amplifiers and remote studio apparatus. Audio and special transformers for all frequencies, voltages, capacities and purposes; impendance, choke coils, etc., designed and constructed to most rigid requirements. Full stock of special alloy resistance wire.

Precise Measurement of Any Electrical or Radio Quality.
Accurate Tests and Reports on All Kinds of Apparatus.

Tel. THornwall 0270 for Appointments

6805 South Western Ave. Los Angeles, Calif.

For Standard Radio Supplies and Electrical Devices

RADIO

VESTA Trickle Chargers
ACME Cone Speakers
BURGESS BATTERIES
ALL-AMERICAN Products
WESTON Electric Instrument Co.
D. T. W. and DUNHAM Loops
DeFOREST Tubes
UTAH Speakers
KELBRACKETS
RAYTHEON Tubes, Etc.
THORDARSON Transformers
BREMER-TULLY Products
PRECISE Mfg. Corp.
DUBILIER Condensers
CARBORUNDUM Crystals & Units
CRL High Variable Resistances
PRECISION "B" Power Units
MARCO Dials, Switches
KODEL Products
PILOT DIALS
DURHAM Resistances & Leaks
JEWETT Speakers, Sets, Dials
FULL-WAVE Chargers
MOHAWK Sets
ELECTRAD Products
CANNONBALL Headphones
VICTOREEN Parts
FORMICA and HOOD Panels
CELESTITE Wire
HEMCO Rejuvenators
TOBE Condensers
YAXLEY Products
H. H. EBY
HOOSICK FALLS
K-E Speakers
KURZ-KASCH Dials
TOBE & DUBILIER B Blocks
AERO Short Wave Kits

ELECTRICAL

ARROW Electric Co.
BUCKEYE Conduit
DURADUCT Loom
SAYLORDUCT Loom
CUTLER-HAMMER Products
DUTCH BRAND Tape
DONGAN and VIM Bell-ringing and Heavy Duty Transformers
BULLDOG KNOBS (Porocelain)
SAFETY Electrical Products
HOTPOINT Appliances
METROPOLITAN Electric Products
MANHATTAN Electric Products
HEINEMAN Electric Products
TRENTON Electric Products
STEEL CITY Boxes
BUSS Fuses and Lamps
CONNECTICUT Electric Products
GAYNOR Push Buttons
BEAVER Products
APPLETON Boxes and Unilets
P. R. and LIBERTY Bells
P. R. and LIBERTY Buzzers
PROPP Specialties
CHAMPION Lamps
CRESCENT Wire
BOWERS Mfg. Company
ABOLITE Reflectors
PITTSBURG Reflectors
OSTRANDER
NEW ERA and MANSFIELD Boxes
T. & B. Locknuts and Bushings
TURNER Torches
PHELPS Skedoodle Flashes

COOK-NICHOLS COMPANY

Wholesale Electrical and Radio Products
411 S. San Pedro St., Los Angeles
FAber 4487 — TUcker 6657

482 S. Fair Oaks Ave.
Pasadena, Calif.
Fair Oaks 1578

2435 E. Anaheim St.
Long Beach, Calif.
327-466

K F O N—Long Beach, California—232.4 Meters

NICHOLS & WARRINGER, INC.
1280 Kilocycles—500 Watts

HAL G. NICHOLS, Manager — ARDYS ANDERSON, Hostess

DAILY EXCEPT SUNDAY:
11:30 a. m. to 12:30 p. m.—Prizma Hour.
4:00 to 4:30 p. m.—Press-Telegram Late News.
5:00 to 6:00 p. m.—KFON Concert Orchestra.
6:00 to 6:20 p. m.—Organ Recital from State Theater.
6:20 to 7:00 p. m.—KFON Concert Orchestra.

DAILY EXCEPT MONDAY:
2:30 to 4:00 p. m.—Municipal Band Concert; Herbert L. Clarke, director.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
5:00 to 6:00 p. m.—KFON Concert Orchestra, sponsored by Long Beach Business Men.
6:00 to 6:20 p. m.—Birkel Music Company piano recital, featuring Weber Duo-Art
6:20 to 7:00 p. m.—KFON Concert Orchestra.
7:00 to 7:30 p. m.—Program by Hewitt's Bookstore and Calif. College of Commerce.
7:30 to 7:45 p. m.—Band Box Program from main studio.
7:45 to 9:00 p. m.—Services from First Church of Christ Scientist, by remote control.
9:00 to 10:00 p. m.—KFON Radio Favorites and Concert Orchestra.
10:00 to 11:00 p. m.—Markwell Taffy Shop program.

MONDAY, AUGUST 16—
7:00 to 8:00 p. m.—KFON Radio Favorites and Concert Orchestra.
8:00 to 8:15 p. m.—"Care of Domestic Pets," by Dr. Roy Broadhurst
8:15 to 12:00 p. m.—Airdales Frolic, presented by Long Beach Advertising Club.

TUESDAY, AUGUST 17—
7:00 to 7:30 p. m.—Studio program.
7:30 to 8:00 p. m.—Chat for Book Lovers, presented by Hewitt's Bookstore.
8:00 to 8:15 p. m.—"The Lure of the Sky," by Dr. Lewis L. Thomas.
8:15 to 9:00 p. m.—Press-Telegram musical program, direction Frank P. Goss.
9:00 to 10:30 p. m.—Aero Club of Long Beach in Musical Hi-Kinks.
10:30 to 12:00 p. m.—State Theater, presenting Pantages Vaudeville.

WEDNESDAY, AUGUST 18—
7:00 to 8:00 p. m.—Musical program from main studio.
8:00 to 8:15 p. m.—"The Law and the Layman," by Herbert Middleditch.
8:15 to 9:00 p. m.—Press-Telegram musical program, direction Frank P. Goss.
9:00 to 10:00 p. m.—KFON Radio Stars and Studio Orchestra.
10:00 to 11:00 p. m.—Music Lovers' Hour. Orchestral numbers by world famous composers.

THURSDAY, AUGUST 19—
7:00 to 7:30 p. m.—Rev. Ernest Beam, Church of Christ, studio program.
7:30 to 8:10 p. m.—L. B. Municipal Band Concert, direction Herbert L. Clarke.
8:10 to 8:20 p. m.—Band Box program.
8:20 to 9:00 p. m.—L. B. Municipal Band Concert, direction Herbert L. Clarke.
9:00 to 10:00 p. m.—KFON Radio Stars and Concert Orchestra.
10:00 to 11:00 p. m.—Tunes of Yesterday, featuring songs of bygone days.

FRIDAY, AUGUST 20—
7:00 to 8:00 p. m.—Psychology Lecture, Dick Carlson, Calif. College of Commerce.
8:00 to 8:15 p. m.—"Keeping Fit with Food," by Walter W. Strong.
8:15 to 9:00 p. m.—Press-Telegram program, direction Frank P. Goss.
9:00 to 10:00 p. m.—Orchestral program from main studio.
10:00 p. m. to 1:00 a. m.—Elks Frolic, presented by Long Beach Lodge of Elks, No. 888.

SATURDAY, AUGUST 21—
7:00 to 7:30 p. m.—Texas Cowboys' Duet in old-time dance music.
7:30 to 8:10 p. m.—L. B. Municipal Band Concert, direction Herbert L. Clarke.
8:10 to 8:20 p. m.—Band Box program.
8:20 to 9:00 p. m.—L. B. Municipal Band Concert, direction Herbert L. Clarke.
9:00 to 10:00 p. m.—Favorite Radio Stars and Studio Orchestra.
10:00 to 11:00 p. m.—Gems from the Musical Plays, featuring musical comedy numbers.

K P S N—Pasadena, California—315.6 Meters

PASADENA STAR-NEWS
1000 WATTS—950 KILOCYCLES

GEORGE CECIL COWING, Managing Director — GEORGE FRENGER, Program Manager
FORBES W. VAN WHY, Engineer-in-Charge — PERCY C. PRYOR, Studio Office

DAILY EXCEPT SUNDAY—
6:00 to 6:15 p. m.—Dinner time news report.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
10:30 a. m.—Family altar service by the United Church Brotherhoods.

TUESDAY, AUGUST 17—
7:50 to 8:00 p. m.—Current sport events discussed by Charles W. Paddock.
8:00 to 9:00 p. m.—Star-News concert hour with the Adolf Tandler Ensemble, and George Frenger ,tenor soloist.

THURSDAY, AUGUST 19—
8:00 to 9:00 p. m.—Musical program, arranged by the Pasadena Chamber of Commerce.

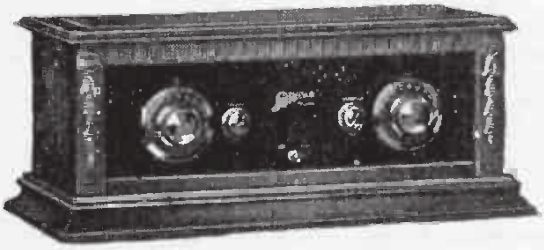
SATURDAY, AUGUST 21—
8:00 to 9:00 p. m.—Star-News concert hour with the Star-News Instrumental Ensemble.

The TRINUM CIRCUIT

A New Radio Creation

NO. 75

The Consolette illustrated above retails at $150.00. The table provides ample space for batteries and charger, and is made to match the cabinet exactly.



NO. 70

The Oriole Table Model shown here retails at $125.00 It offers all in performance Radio can give. It tunes with zip and pep! A supremely fine instrument.

You have always known Radio would be better---you have felt that when the true craftsman spirit, *the pride of building the best from sheer love of high achievement,* animated Radio builders, there would come the most astounding improvement in performance. It is here!

The most selective radio receiver yet built. The patented Trinum Circuit has eliminated all the difficulties with the old radio tuned frequency arrangements. Built with infinite care, yet priced right, the three genuinely beautiful models in the Oriole line mean certain profit to Oriole jobbers and dealers. Write for franchise plan---it's unusual.

Sales Dept.,
The Zinke Co.,
1323 S. Michigan Ave.,
Chicago, Ill.

Manufactured by
W-K Electric Co.,
Kenosha, Wis.

ORIOLE
RADIO RECEIVER

K F W O—Avalon, California—211.1 Meters

THE ISLAND STATION
Power 250 Watts—Western Electric Equipment
"Katalina for Wonderful Outings"

MAJOR LAWRENCE MOTT
Owner-Operator

MISS FRANCES HEWITT
Studio and Program Director

COMPLETE SUMMER SCHEDULE OF KFWO
In effect beginning June 12th

DAILY EXCEPT MONDAY—
12:30 to 1:30 p. m.—Hotel St. Catharine Orchestra.
6:00 to 6:30 p. m.—The Great Wrigley Chimes.
6:30 to 7:30 p. m.—Hotel St. Catherine Orchestra.
7:30 to 9:00 p. m.—The Catalina Island Marine Band; studio and re-broadcast:

MONDAYS: 12:30 to 1:30—Silent.

WEDNESDAYS: Special programs during summer.

THURSDAYS: 12:30 to 1:30 p. m.—Silent.

SATURDAYS: Special programs during summer.

SUNDAYS: 5:00 to 6:00 p. m.—Miss Hewitt's Golden Hour.

K F S D—San Diego, California—245.8 Meters

1000 WATTS—1220 KILOCYCLES
AIRFAN RADIO CORPORATION, U. S. Grant Hotel, 326 Broadway, San Diego. Main 8661.
HAL C. ROGERS, President and General Manager

DAILY—
6:30 to 7:00 p. m.—Musical Amusement Review—William Mee.

DAILY EXCEPT SATURDAY—
6:15 to 6:30 p. m.—E. Frank Gunn, "Ye Towne Topics."

DAILY EXCEPT SUNDAY—
12:00 to 1:00 p. m.—Noon concert.
1:00 to 1:30 p. m.—Harvey Ball and his orchestra.
10:00 to 11:00 p. m.—Harvey Ball and his U. S. Grant Hotel Orchestra.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
3:00 to 4:00 p. m.—Temple service of the Theosophical University at Point Loma, Calif.
7:00 to 8:00 p. m.—Mixed musical program.
8:00 to 9:00 p. m.—Studio program.
9:00 to 10:00 p. m.—All-Star Five Orchestra, with Gene Merritt, baritone.

MONDAY, AUGUST 16—
7:00 to 8:00 p. m.—George W. Carr, baritone, assisted by other artists.
8:00 to 9:00 p. m.—Jay Eslick, baritone, and Ruth Oldom, pianist and contralto.
9:00 to 10:00 p. m.—Studio program.

TUESDAY, AUGUST 17—
7:00 to 8:00 p. m.—Sally Canady Huff and her "Sunset Ensemble."
8:00 to 9:00 p. m.—Union Title and Insurance Company program.
9:00 to 10:00 p. m.—Raymund V. Morris, Inc., Hudson-Essex dealer, program.

WEDNESDAY, AUGUST 18—
7:00 to 7:30 p. m.—Clyde Sparks, baritone, and L. V. Downing, pianist.
7:30 to 8:30 p. m.—Concert program broadcast by remote control from the Theosophical University at Point Loma, Calif.
8:30 to 10:00 p. m.—KFSD Concert—Request night program.

THURSDAY, AUGUST 19—
7:00 to 8:00 p. m.—Studio program.
8:00 to 9:00 p. m.—George Beach, baritone, and E. P. James String Quartet.
9:00 to 10:00 p. m.—Woods Harmony Five Orchestra.

FRIDAY, AUGUST 20—
7:00 to 8:00 p. m.—Earl Fegan's Orchestra, with Vernon Bushway, tenor.
8:00 to 9:00 p. m.—Pure Milk Dairy Company program.
9:00 to 10:00 p. m.—Studio program.

SATURDAY, AUGUST 21—
6:30 to 7:00 p. m.—Musical amusement review under direction of Wm. G. Mee.
7:00 to 8:00 p. m.—Les Dreis Washingtonians Dance Orchestra.
8:00 to 9:00 p. m.—Bernice McCall, soprano, and other artists.
9:00 to 10:00 p. m.—Studio program.
11:00 p. m. to 1:00 a. m.—KFSD Midnight Frolic Open house.

SELECTO-*Interference Eliminator*

Tunes out those Interfering Stations—Reduces Static and Power Noises.
Gives Selectivity and Clarity.
Enjoy your Program as never before. Selecto is Simple and Practical.
DISTRIBUTED BY
AMERICAN SALES CO.
Los Angeles, Calif.
145 South Spring Street
Tel. VAndike 8028

The Velvet Cone

Here's radio magic---a cone of sheer beauty with all the volume of the horn and none of the handicaps of the usual cone.

A splendid new development---the appearance of a most beautiful cone---yet even more pleasing to the eye. It delivers the rich deep bass of the cone with a volume equal to the horn type, *without* distortion. No patent conflicts. Indestructible. Not affected by climate or moisture. Borkman unit that won't blast on heaviest power amplification.

Write Today for Literature

Sales Dept.,
The Zinke Co.,
1323 S. Michigan Ave.,
Chicago, Ill.

Manufactured by
The Borkman Radio Corp.,
Salt Lake City, Utah
Kalamazoo, Mich.

No. 18
$27.50

K P O—San Francisco, California—428.3 Meters

1000 WATTS—700 KILOCYCLES
HALE BROTHERS AND THE CHRONICLE
CLAIR E. MORRISON, Technical Director

DAILY EXCEPT SUNDAY—

7:00, 7:30, 8:00 a. m.—Daily dozen exercises.
10:30 a. m.—Weather forecast and general information.
12:00 noon—Time signals.
12:30 to 1:00 p. m.—Clift Hotel Concert Orchestra, Sollie Heilbronner, director.
1:00 to 2:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra.
2:30 to 3:30 p. m.—Baseball, play by play, from Recreation Park.
4:30 to 5:30 p. m.—Palace Hotel Concert Orchestra.
5:30 to 6:15 p. m.—Children's Hour with Big Brother.
6:15 to 6:30 p. m.—Stock quotations.
6:30 to 7:00 p. m.—State Restaurant Orchestra.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—

9:45 to 10:45 a. m.—Undenominational and non-sectarian church service. Talk on "Sunsets With the Savior," by Dr. E. A. Van Nuys, Calvary Presbyterian Church.
10:45 a. m.—U. S. weather forecast, amusement and general information.
2:45 p. m.—Play by play broadcast of the baseball game.
5:00 to 6:00 p. m.—Organ recital by Marshall W. Giselman.
6:00 to 6:30 p. m.—The States Restaurant Orchestra, Waldemar Lind directing.
6:30 p. m.—Baseball scores, amusement and general information.
6:35 to 8:35 p. m.—Palace Hotel Concert Orchestra, Cyrus Trobbe directing.
8:35 to 10:00 p. m.—Rudy Seiger's Fairmont Hotel Orchestra.

MONDAY, AUGUST 16—

7:30 to 8:00 p. m.—DX.
8:00 to 9:00 p. m.—Organ recital by Uda Waldrop, official organist.
9:00 to 10:00 p. m.—KFI, Los Angeles, and KPO, San Francisco, broadcasting simultaneously a program originating in the KFI studio for the Walter M. Murphy Motors Company, Los Angeles, and Stanley W. Smith, Inc., San Francisco.
10:00 to 11:00 p. m.—Mandarin Cafe Orchestra, Lynn Pryor directing.

TUESDAY, AUGUST 17—

7:30 to 8:00 p. m.—DX.
8:00 to 9:00 p. m.—Studio program.
9:00 to 10:00 p. m.—Studio program featuring Gypsy and Marta, harmony team, and the KPO Trio.
10:00 to 11:00 p. m.—Palace Hotel Rose Room Dance Orchestra, Gene James directing.

WEDNESDAY, AUGUST 18—

7:30 to 8:00 p. m.—DX.
8:00 to 9:00 p. m.—Program by the Atwater Kent Artists under the auspices of Ernest Ingold, Inc.
9:00 to 10:00 p. m.—Clift Hotel Dance Orchestra, Herb Meyerinck directing.
10:00 to 11:00 p. m.—The States Restaurant Orchestra, Waldemar Lind directing.

THURSDAY, AUGUST 19—

7:30 to 8:00 p. m.—DX.
8:00 to 9:00 p. m.—Studio program.
9:00 to 10:00 p. m.—Program by Kane's Hawaiians.
10:00 to 11:00 p. m.—Mandarin Cafe Dance Orchestra, Lynn Pryor directing.

FRIDAY, AUGUST 20—

7:00 to 7:10 p. m.—"Sports on the Air," by Harry B. Smith, sporting editor of The Chronicle.
7:10 to 7:20 p. m.—"Business and Investment," talk by Russell-Colvin Company.
7:20 to 7:30 p. m.—Chamber of Commerce talk on "Industrial San Francisco," by Capen A. Fleming, director industrial department.
7:30 to 8:00 p. m.—DX.
8:00 to 9:00 p. m.—Studio program.
9:00 to 10:00 p. m.—Palace Hotel Rose Room Dance Orchestra, Gene James directing.
9:10 to 9:20 p. m.—Book review by Harry A. Small of the San Francisco Chronicle.
10:00 to 11:00 p. m.—States Restaurant Orchestra, under the direction of Waldemar Lind.

SATURDAY, AUGUST 21—

7:20 to 7:30 p. m.—Talk on "Real Estate," furnished by the R. A. Wilson Company.
7:30 to 8:00 p. m.—DX.
8:00 to 10:00 p. m.—Cabiria Cafe Orchestra, Billy Long directing, with Maurice Gunsky, tenor, accompanied by Merton Bories, during intermissions.
10:00 to 12:00 p. m.—Clift Hotel Dance Orchestra, Herb Meyerinck directing.

Take a tip from us—See next week's issue.

K F R C—San Francisco, California—268 Meters

CITY OF PARIS DRY GOODS CO.
50 WATTS—1120 KILOCYCLES
LANSING TEVIS, Manager HARRISON HOLLIWAY, Station Master

DAILY EXCEPT SUNDAY—
6:30 p. m.—"Stage and Screen."
7:00 to 7:30 p. m.—Goodfellows Ad. Period.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—

10:00 to 12:00 p. m.—Dance music by Walter Krausgrill's Orchestra.

MONDAY, AUGUST 16—

4:30 to 5:30 p. m.—Dance music by Ken Roth's Palm Garden Four.
5:30 to 6:30 p. m.—A. F. Merell and his Stamp Club.
6:30 to 7:30 p. m.—Jo Mendel and his Pep Band.
8:00 to 9:00 p. m.—Around the Camp Fire with Mac.

TUESDAY, AUGUST 17—

5:30 to 6:30 p. m.—Mac and his Gang.
6:30 to 7:15 p. m.—"60 Minutes of Songs and Smiles."
8:00 to 9:30 p. m.—Studio program, featuring Uucille Price and Frank Meensing.
9:30 to 11:00 p. m.—Dance music by Walter Krausgrill's Balconades Orchestra.

WEDNESDAY, AUGUST 18—

6:30 to 7:30 p. m.—"60 Minutes of Songs and Smiles."
8:10 to 9:00 p. m.—Concert by KFRC Little Symphony Orchestra.
9:00 to 10:00 p. m.—Studio program.
10:00 to 12:00 p. m.—Dance music by Krausgrill's Balconades Orchestra.

THURSDAY, AUGUST 19—

6:30t o 7:30 p. m.—"60 Minutes of Songs and Smiles."
8:00 to 8:30 p. m.—Studio program, courtesy Paralta Studios.
8:30 to 10:00 p. m.—Dance music by Walter Krausgrill's Orchestra.

FRIDAY, AUGUST 20—

6:30 to 7:30 p. m.—"60 Minutes of Songs and Smiles."
8:00 to 9:00 p. m.—KFRC Little Symphony Orchestra.
9:00 to 10:00 p. m.—Studio program by the Lorilei Quartet.

SATURDAY, AUGUST 21—

6:30 to 7:30 p. m.—"60 Minutes of Songs and Smiles."
8:30 p. m. to 1:00 a. m.—Dance music by Walter Krausgrill's Orchestra.

Don't miss next week's issue.

K L X—Oakland, California—508.2 Meters

500 WATTS—508 METERS
OAKLAND TRIBUNE RADIOPHONE

DAILY EXCEPT SUNDAY—
3:00 p. m.—Baseball.
7:00 to 7:30 p. m.—News broadcast.

WEEK COMMENCING MONDAY, AUGUST 16, 1926

MONDAY, AUGUST 16—

8:00 to 9:00 p. m.—"Community Night" program.

WEDNESDAY, AUGUST 18—

6:30 to 7:00 p. m.—Athens Athletic Club Orchestra.
8:00 to 9:00 p. m.—Educational program.
9:00 to 10:00 p. m.—Special program.

FRIDAY, AUGUST 20—

8:00 to 9:45 p. m.—Studio program.
9:45 to 10:30 p. m.—Athens Athletic Club Orchestra.

K G O—Oakland, California—361.2 Meters

3000 WATTS—830 KILOCYCLES
PACIFIC COAST STATION, GENERAL ELECTRIC COMPANY

DAILY EXCEPT SUNDAY—
11:30 a. m. to 1:00 p. m.—Luncheon concert.
12:00 noon—Time signal and weather report.
1:30 p. m.—New York and San San Francisco stock reports.
6:00 to 6:55 p. m.—Dinner concert.
6:55 p. m.—News items and final reading of weather and stock reports.

DAILY EXCEPT SUNDAY AND MONDAY—
4:00 to 5:30 p. m.—Concert Orchestra, Hotel St. Francis.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
11:00 a. m.—First Baptist Church service (Oakland): Dr. J. Whitcomb Brougher, pastro.
4:00 p. m.—Vesper service, Grace Cathedral, San Francisco.
6:30 to 7:30 p. m.—Concert by Bem's Little Symphony Orchestra.
7:30 p. m.—Weather Bureau report.
7:35 p. m.—First Baptist Church service (Oakland); Dr. J. Whitcomb Brougher, pastor.
9:00 to 10:00 p. m.—Concert by Bem's Little Symphony Orchestra.

MONDAY, AUGUST 16—
5:30 to 6:00 p. m.—KGO Kiddies' Klub.
8:00 p. m.—Educational program—music and speakers.
8:05 p. m.—Dr. W. J. Stewart, subject, "The Highway of Service." Country Dance.
8:25 p. m.—Leroy R. Goodrich: "United States Government." Pastoral, Arion Trio.
8:50 p. m.—Wilda Wilson Church: "Better English." Merrymakers Dance, Arion Trio.
9:15 p. m.—Joseph Henry Jackson: "Chats About New Books."
9:30 p. m.—Mrs. Guy F. Farrington, speaker, auspices University of California.

TUESDAY, AUGUST 17—
2:00 to 4:00 p. m.—Knickerbocker Trio, presented by Pacific Radio Trade Association.
8:00 to 9:00 p. m.—Eveready program: Orpheus Orchestra; California Male Quartet.
9:00 to 10:00 p. m.—The Pilgrims' Hour, presented by the Don Lee Cadillac Company.

WEDNESDAY, AUGUST 18—
2:00 to 3:00 p. m.—Knickerbocker Trio, presented by Pacific Radio Trade Association.
5:30 p. m.—"For Instance," General Jackson, columnist.

THURSDAY, AUGUST 19—
2:00 to 4:00 p. m.—Knickerbocker Trio, presented by Pacific Radio Trade Association.
5:00 to 6:00 p. m.—George W. Ludlow, "Friend to Boys."
8:00 to 9:00 p. m.—Vacation program (Oakland studio).
9:00 to 12:00 p. m.—Phil Lampkin's Musical Bears, Paradise Gardens, Oakland.

FRIDAY, AUGUST 20—
11:10 a. m.—Prudence Penny, Homemaking Talk.
2:00 to 3:00 p. m.—Knickerbocker Trio, presented by Pacific Radio Trade Association.
5:30 to 6:00 p. m.—KGO Radio Girls.

SATURDAY, AUGUST 21—
2:00 to 4:00 p. m.—Knickerbocker Trio, presented by Pacific Radio Trades Association.
4:00 to 5:00 p. m.—Concert by Bem's Little Symphony Orchestra.
8:00 p. m.—Weather Bureau report. Al Santoro, "Weekly Sport Review."
8:10 to 9:00 p. m.—Kohler & Chase program (San Francisco studio).
9:00 to 9:30 p. m.—Arthur S. Garbett in a musical talk, illustrated by instrumental trio.
9:30 to 10:00 p. m.—Popular program, featuring Helen Hart and Lloyd Cathcart.
10:00 p. m. to 1:00 a. m.—Dance music, Wilt Gunzendorfer's Hotel Whitcomb Band.

K T A B—Oakland, California—303 Meters

THE ASSOCIATED BROADCASTERS
ADA MORGAN O'BRIEN, Director

DAILY EXCEPT SUNDAY—
8:30 to 9:00 a. m.—Prayer service.
9:00 to 9:30 a. m.—Shopping Hour.
7:00 to 7:30 p. m.—Shopping Hour.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
9:45 to 10:45 a. m.—Bible Lecture.
11:00 a. m. to 12:30 p. m.—Church Service.
7:45 to 9:15 p. m.—Church Service.

MONDAY, AUGUST 17—
8:00 to 10:00 p. m.—Studio Program.

WEDNESDAY, AUGUST 18—
6:00 to 6:30 p. m.—Lecture Hour.
8:00 to 10:00 p. m.—Studio Program.

THURSDAY, AUGUST 19—
5:45 to 6:15 p. m.—Lecture Hour, "Keeping Well."
8:00 to 10:00 p. m.—Studio Program.

FRIDAY, AUGUST 20—
8:00 to 10:00 p. m.—Studio Program.

K G W—Portland, Oregon—491.5 Meters

1000 WATTS—610 KILOCYCLES

DAILY EXCEPT SATURDAY AND SUNDAY—
9:45 to 11:30 a. m.—Town Crier, music, weather reports, news items.
12:30 to 1:30 p. m.—Concert.
6:00 to 7:00 p. m.—Dinner concert and ball scores.
7:30 to 7:45 p. m.—Weather, markets and police reports, news items and ball scores.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
10:25 a. m. to 12:00 noon—Morning service from the First Presbyterian Church.
7:30 to 9:00 p. m.—Evening services from the St. Stephens Pro-Cathedral.
9:00 to 10:00 p. m.—Concert by the Chevrolet Little Symphony Orchestra.

MONDAY, AUGUST 16—
7:00 to 7:30 p. m.—KGW Movie Club.
9:00 to 10:00 p. m.—Vaudeville entertainment.

TUESDAY, AUGUST 17—
2:00 to 3:00 p. m.—Women's matinee.
7:00 to 7:30 p. m.—Children's program, broadcast simultaneously with KFOA, Seattle, Washington.
8:00 to 10:00 p. m.—Educational program.
10:00 to 12:00 p. m.—Dance music, featuring Herman Kenin's dance orchestra.

WEDNESDAY, AUGUST 18—
8:00 to 9:00 p. m.—Concert

THURSDAY, AUGUST 19—
7:45 to 8:00 p. m.—Lecture, given under the auspices of the Catholic Truth Society of Oregon.
8:00 to 9:40 p. m.—Vaudeville program.

FRIDAY, AUGUST 20—
2:00 to 3:00 p. m.—Women's matinee.
8:00 to 9:00 p. m.—Concert of vocal and instrumental music.

SATURDAY, AUGUST 21—
10:00 to 12:00 p. m.—Dance music, featuring Herman Kenin's Orchestra.

Order your next week's copy today.

K J R—Seattle, Wash.—384.4 Meters

NORTHWEST RADIO SERVICE CO.
1000 WATTS—780 KILOCYCLES
THE BROADCASTING HOME OF THE POST-INTELLIGENCER

DAILY EXCEPT SUNDAY—
11:30 a. m. to 12:00 noon—Post-Intelligencer talk.
12:00 noon, 6:00 p. m. and 10:00 p. m.—Pacific Standard Time Signals.
5:40 p. m.—Closing stock quotations.
6:00 p. m.—Baseball scores.
6:05 p. m.—Weather report and "The Box Office."

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
11:00 a. m. to 12:30 p. m.—Church services from First M. E. Church; Dr. J. Ralph Magee, pastor. Organ recital by Mrs. Montgomery Lynch.
7:45 to 8:00 p. m.—Organ recital by Mrs. Montgomery Lynch.
8:00 to 9:15 p. m.—Evening service First M. E. Church; Dr. J. Ralph Magee, pastor.
9:15 to 10:45 p. m.—Puget Sound Savings & Loan Association Orchestra.

MONDAY, AUGUST 16—
8:30 to 10:00 p. m.—Post-Intelligencer studio program.

TUESDAY, AUGUST 17—
8:30 to 10:00 p. m.—Puget Sound Savings &Loan Association studio program.

WEDNESDAY, AUGUST 18—
7:30 to 8:30 p. m.—Arcweld Manufacturing Co. studio program.
10:00 to 11:00 p. m.—Olympic Calpet Refining Co. dance music.

THURSDAY, AUGUST 19—
8:30 to 10:00 p. m.—Puget Sound Savings & Loan Association studio program.
10:00 to 10:30 p. m.—Benjamin Franklin Eelctric Co. musical program.
10:30 to 12:00 p. m.—Post-Intelligencer presenting weekly meeting of the "Keep Joy Radiating Order of Bats."

FRIDAY, AUGUST 20—
8:30 to 10:00 p. m.—Post-Intelligencer studio program.

SATURDAY, AUGUST 21—
8:30 to 10:00 p. m.—The L. C. Warner Co. studio program.

K O A—Denver, Colorado—322.4 Meters

930 KILOCYCLES—2000 WATTS
ROCKY MOUNTAIN BROADCASTING STATION—GENERAL ELECTRIC COMPANY
Pacific Standard Time

DAILY EXCEPT SUNDAY—
10:45 a. m.—Weather and market reports.
11:15 a. m.—Organ recital.

WEEK COMMENCING SUNDAY, AUGUST 15, 1926

SUNDAY, AUGUST 15—
10:00 a. m.—Service of Montview Presbyterian Church, Denver; Rev. William L. Barrett.
4:30 p. m.—Organ recital from Montview Presbyterian Church.
7:00 p. m.—Open-air concert, Denver Municipal Band.

MONDAY, AUGUST 16—
5:00 p. m.—Stocks, markets, livestock, produce and news bulletins.
5:30 p. m.—Dinner concert, Brown Palace String Orchestra.
7:00 p. m.—Instrumental program by Scheuerman's Colorado Orchestra.
7:15 p. m.—Studio program of miscellaneous musical offerings.

TUESDAY, AUGUST 17—
5:00 p. m.—Stocks, markets, livestock, produce and news bulletins.
5:30 p. m.—Dinner concert, Brown Palace String Orchestra.
6:30 p. m.—Farm question box.

WEDNESDAY, AUGUST 18—
5:00 p. m.—Stocks, markets, livestock, produce and news bulletins.
5:30 p. m.—Dinner concert, Brown Palace String Orchestra.
6:30 p. m.—Wynken, Blynken and Nod time, by members of Denver Library Club.
7:00 p. m.—Instrumental program by Scheuerman's Colorado Orchestra.
7:15 p. m.—Special studio program arranged and presented by the 103rd Division, U. S. Army, Denver.

THURSDAY, AUGUST 19—
5:00 p. m.—Stocks, markets, livestock, produce and news bulletins.
5:27 p. m.—United Press weekly sports review.
5:30 p. m.—Dinner concert, Brown Palace String Orchestra.

FRIDAY, AUGUST 20—
2:30 p. m.—Matinee for housewives.
5:00 p. m.—Stocks, markets, livestock, produce and news bulletins.
5:30 p. m.—Dinner concert, Brown Palace String Orchestra.
6:30 p. m.—Preview of International Sunday School lesson.
7:00 p. m.—Open-air concert, Denver Municipal Band.

NO MORE "B" BATTERIES

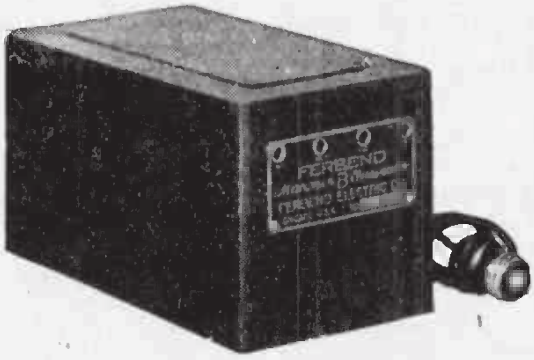
WITH FERBEND'S IMPROVED

B Battery Eliminator

Special — $12.50 — Reduced

F. O. B. Chicago
Express, Etc., $2.25 Extra

Just plug into your light socket and forget your battery troubles. Lasts indefinitely.



Guaranteed equal or superior to any eliminator regardless of price. Operates any set.

Distributed Exclusively by

NATIONAL ELECTRIC CO.

751 So. Olive St. Phone: VAndike 2592 Los Angeles, Cal.

homes

Homes—by the tens and hundreds of thousands—are happier because Crosley delivers maximum radio satisfaction at minimum cost.

These famous receivers are sold only by dealers who have demonstrated their ability and integrity.

To own a Crosley Receiver is to know true pride of possession and of performance.

To sell a Crosley Receiver is to know that you have given your customer the utmost in radio value.

Crosley Radio Equipment is Distributed in California by

H. Earle Wright, Incorporated

123-129 Second Street
SAN FRANCISCO

415 East Eighth Street
LOS ANGELES

Of Interest to the Trade

Tuesday night, August 17, will be Radio Trades night at the Hollywood Bowl. Each year the Hollywood Bowl Association has set aside one night for the Music Trades, and this year on the above night, Radio Trades are included.

Complimentary tickets are given to music and radio dealers for the concert in return for the help which music and radio dealers have given and continue to give in boosting the great summer concerts at the Hollywood Bowl.

Radio dealers—as well as music dealers, who desire free tickets for this beautiful symphony orchestra concert under the stars, August 17, should communicate at once with Secretary A. G. Farquharson, Music & Radio Trades Association of Southern California, 516 Commercial Exchange Bldg., Los Angeles, California.

The Noble Co., 1805-09 South Figueroa street, Los Angeles, have been appointed distributors for the Universal "B" Eliminator. The advantages claimed for this eliminator are: Voltage can be positively regulated. Constant uniform power. Lower operating cost. Improved tone quality and volume.

R. Kruger & Co. report that sales of CeCo Tubes show an increase of 100 per cent over the same period for last season.

J. B. Ferguson, Inc., manufacturer of "The Gold Standard of Radio Receivers" has been compelled to double its factory space due to the increased volume of business. The factory is located at 3542 Forty-first streea, Long Island City, N. Y. The executive, sales office and display rooms are at 225 West Fifty-seventh street (just off Broadway), New York City.

THE EKKO GROUND CLAMP

Imperfect ground contact has been shown responsible for a high percentage of all radio service cases. It is to the interest of all those using radios to limit these service cases to a minimum.

The greatest relief for this ailment is the new Ekko Ground Clamp. The hardened steel points of the Ekko Ground Clamp bite through paint, rust,

dirt and corrosion, or any other insulation that reduces the flow of current. Their positive contact insures a free flow of current and full signal strength.

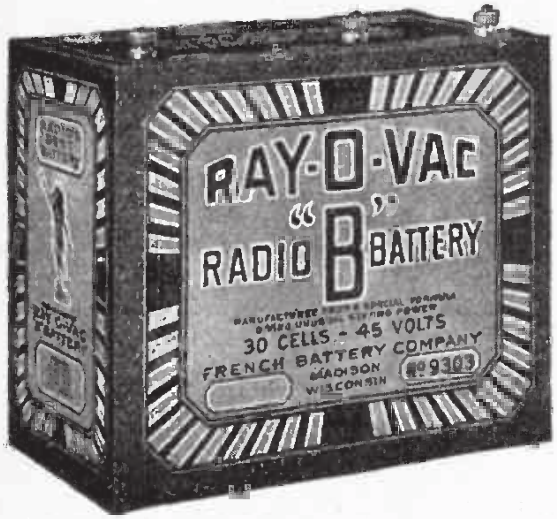
The Ekko Clamp is easy to use. Screw the ground wire to the clamp, attach the clamp to the nearest pipe. And very small pressure on the screw gives positive contact. The Clamp is non-corrosive and maintains contact permanently. It will fit any pipe from ¼ to 1¼ inches in diameter. Attached sketch describes application.

These ground clamps are likewise adaptable for connections on your battery terminals. They bite into the lead plugs and make positive contact, giving you full battery strength at all times.

These Clamps are manufactured by the Ekko Company of Chicago and are handled by all Radio and Electric jobbers, being distributed by the A. S. Lindstrom Company and Lombard J. Smith with offices at 324 North San Pedro street.

Makers of men's carpet slippers in Chicago report an increase in trade. It is believed this is caused by radio, which keeps men home in the evenings.

Lasting Quality



No. 9303

Ray-O-Vac No. 9303 is a 45-volt "B" battery built to give the utmost in "B" battery service for the money invested. It will go into a space only 8 in. x 4½ in. x 7¼ in., and is especially recommended for multiple tube sets, in which service its long life and dependability has become a proverb.

Ray-O-Vac No. 2303 is also a 45-volt "B" battery, with a tap at 22½ volts. It is designed for long, dependable service where a battery somewhat smaller than No. 9303 is necessary. Ask any radio dealer about the fine qualities of either of these Ray-O-Vacs.

No. 2303

FRENCH BATTERY COMPANY

737 Terminal Street
LOS ANGELES

Out of the Air

When you go camping and take your portable radio along, it is a good plan to include a spool of talking tape, or radio ribbon, and a few glass-headed pins;—such as used in hanging pictures. Portables, as a rule, do not bring in dstance very well, as the loop does not have enough pick up.

String out the talking tape and fasten it to trees with the pins, attaching the tape to the glass heads. Wind three turns of the tape around the loop, and ground the end leading from the loop. This arrangement will give the loop greater pick up, as it acts as a booster. It takes only a few minutes to install, and the time will be well spent, for you will get better reception, and greater distance.

While Eastern radio stations are worrying about summer conditions and poor reception stations in this part of the country are enjoying a busy season.

True, reception for distance isn't as good at this time of the year, but local receiving is just as fine and programs of quality continue to be prepared by concerns. Practically every station is filled.

KNX, the Evening Express ,is no exception to this rule, and it is still a matter of trying to find enough time to spread around to the people who desire programs.

"Harry is mighty businesslike. I wonder how he broke the news to Phyllis's father after their secret marriage.

"He simply wrote on his business card: "Please find your daughter attached hereto." — American Legion Weekly.

More than 50 short-wave stations are operating throughout the world on wave-lengths of from 13.5 meters to 50 meters.

On two occasions, radio was given official recognition in Denver judicial circles when receiving sets were ordered installed recently for the entertainment of murder trial juries after "working hours," according to reports to KOA, Rocky Mountain broadcasting station of the General Electric chain. Under court stipulations, however, the bailiffs were required to switch off the set during any radio news comments on the trials.

Because present communicating systems between Swatow, China, and the world are unsatisfactory, the National Party of China is contemplating the erection of a large modern wireless station in Swatow capable of transmitting and receiving from all Chinese stations and adjacent sections of the Far East. Trans-oceanic communication also will be attempted unless the cost is prohibitive.

A negro servant on being ordered to announce visitors to a dinner party was directed to call out in a loud, distinct voice their names. The first to arrive was the Fitzgerald family numbering eight persons. The negro announced Major Fitzgerald, Miss Fitzgerald, Master Fitzgerald, etc. This so annoyed the master of the house that he went to the negro and said—"Don't announce each person like that; say something shorter."

The next to arrive were Mr. and Mrs. Penny and their daughter. The negro solemnly opened the door and called out, "Three Cents!"—Selected.

A condenser connected in series with an aerial will reduce the wave-length of the aerial. One connected in parallel will raise the wave-length.

Fading is much less troublesome in daylight than at night.

THE HEART OF THE RADIO

VELVETONE

B BATTERY ELIMINATOR

Everywhere, August 14, 1926.

Dear Mr. Set Owner:

Do you know that you can save money and get more pleasure out of your radio if you install a Velvetone "B" Battery Eliminator?

Sincerely, Any Radio Dealer.

P. S.—You will never have any more battery trouble.

B BATTERY ELIMINATOR

VELVETONE

THE HEART OF THE RADIO

BAKELITE, FIBRE & WROUGHT PARTS

CELORON	Sheets	Sheets	Panels	Loops
FORMICA	Tubes	Tubes	Sub-panels	Loop Strips
	Rods	Rods	Coil Forms	Specials

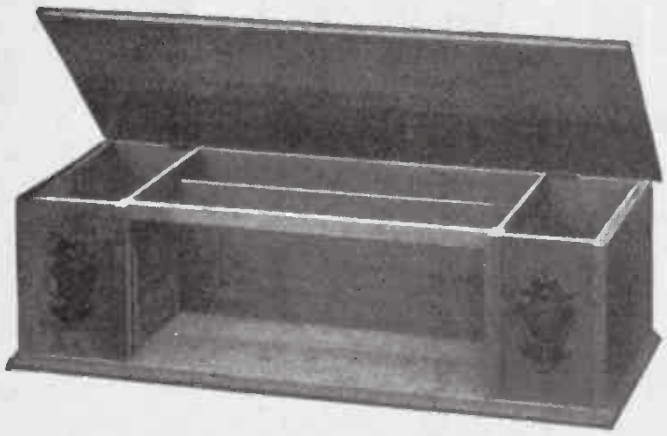
Rubber Panel Stock

If it can be made of bakelite or fibre we can make it

TWINING-SCOTT

Distributors, Diamond State Fibre Co.

WEstmore 4277 1125 Wall St. LOS ANGELES



OUR 200 SERIES CABINETS

A beautiful cabinet designed to take set and batteries. Genuine Philippine mahogany.

Model	Size	Price Unfinished	Price Finished
201	7x12x10	$6.85 List	$10.50 List
202	7x14x10	7.20 "	11.10 "
203	7x18x10	7.90 "	12.00 "
204	7x21x10	8.55 "	12.90 "
205	7x24x10	9.15 "	13.95 "
206	7x26x10	9.80 "	14.45 "

Prices F.O.B. Los Angeles
Terms: Cash with Order

Send for Illustrated Bulletin

A-1 WOODWORKING COMPANY
1338-1342 San Julian St., Los Angeles

See the new INFRA-DYNE and the A. C. operated Browning-Drake receivers at our booths in the Pacific Radio Exposition at San Francisco and the National Radio Exposition at Los Angeles. Send 25c for a copy of the August issue of "RADIO." It tells you how to build both of these receivers. Order your copy direct from the publishers.

25c PER COPY AT NEWSSTANDS

RADIO

Established 1917 as Pacific Radio News

A. H. Halloran, Editor *G. M. Best, Tech. Editor*

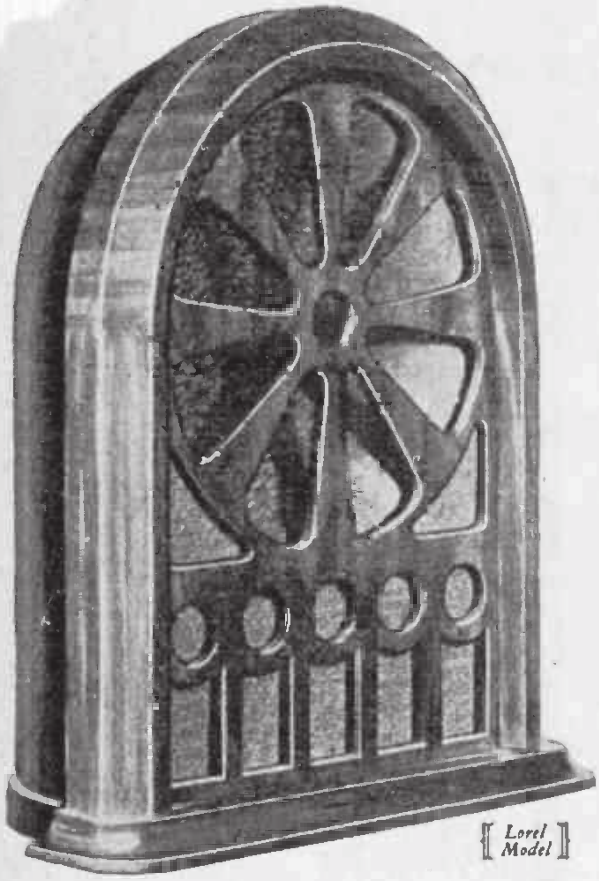
PACIFIC BUILDING SAN FRANCISCO·CAL.

Send $1.00 for the next 6 issues

Advertised Products are Laboratory Tested

You hear *all* the tones

with an



[Lorel Model]

ALL-AMERICAN
TRADE MARK
Reproducer

An All-American Quality Product

A *good* speaker is the only kind worth having. A poor one will ruin otherwise good reception.

We're making a good one for you—the *Lorel* Reproducer; a cone type correctly balanced with sounding-board and sounding-chamber, to give you that purity of *all* tones, which you desire.

This remarkable unit combines the good features of both cone and sounding-chamber types of speaker; and eliminates their inherent weaknesses. You can hear *all* the high and low tones with the *Lorel*; clear and full.

Ask your dealer for a demonstration of the Lorel. You'll find it a real improvement in radio reception.

Price $27.50

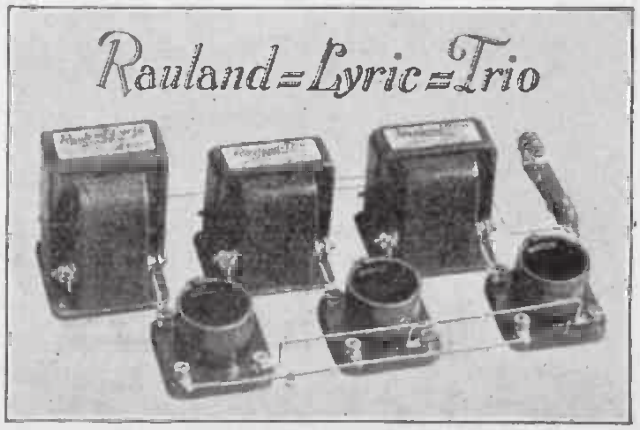
ALL-AMERICAN RADIO CORPORATION
4201 Belmont Avenue · Chicago

Pure full tone is possible only with unvarying "B" power. With All-American "Constant B" you get a permanent, constant plate power. There's nothing to take care of; no annoying hum, and no acid. Permanently sealed. "Constant B" has a 10 to 60 volt tap, varied in output by a "detector" control; a 67½ volt and a 90 volt tap; a variable voltage "power-tube" tap uniformly controlled by a "High-Low" switch.

Price $39.00 *Complete with Raytheon Tube*

A Remarkable Improvement in Audio Amplification

A development by All-American laboratories—the Rauland-Lyric-Trio. You know the Rauland Lyric Transformer, famous among music critics for its exceptional tone perfection. It is now combined with two Rauland Trio impedance units; retaining the advantages and eliminating the weaknesses of the two leading systems of audio amplification. The result is the last word in audio amplification. *Free book, "Modern Audio Amplification," tells more about this interesting development. Write for handbook "B-90."*



Names to Conjure With

Federal Ortho-Sonic Receivers

Majestic "B" Eliminators

Dictograph Speakers and Units

The Herald Cone

Handy Trickle-Booster Charger

Perryman Radio Tubes

Excello Console Cabinets

Balkite Products

The Erla Cone Speaker

Yale "B" Batteries

Elkon Charging Devices

Make these "Buy"-words in Radio
Your dealer will gladly demonstrate these quality products

Wholesale Distributor

YALE RADIO ELECTRIC CO.

1111 Wall St., Los Angeles, California Phone WEstmore 1509